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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CALIFORNIA, USA ONLY

The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.

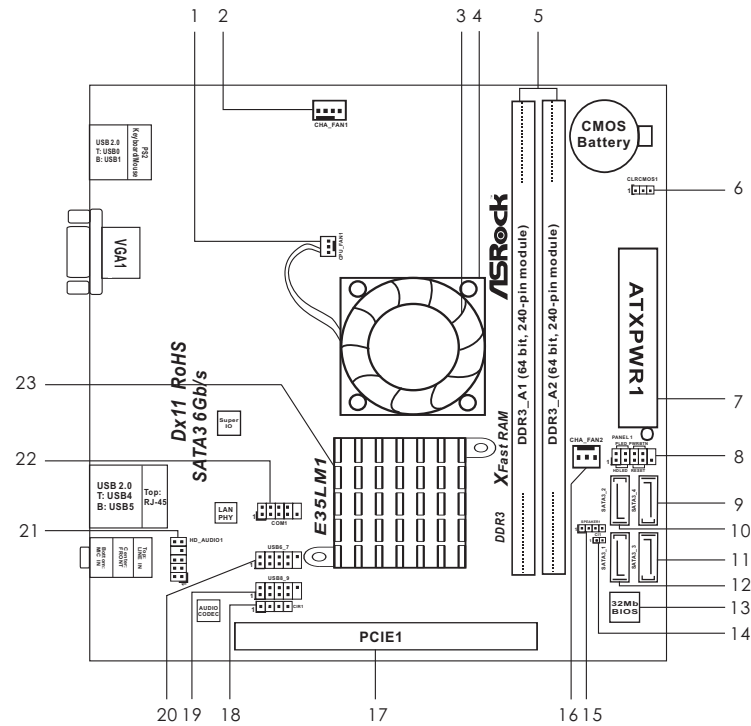
"Perchlorate Material-special handling may apply, see
www.dtsc.ca.gov/hazardouswaste/perchlorate"

ASRock Website: <http://www.asrock.com>

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English

Motherboard Layout



- | | | | |
|----|---|----|--|
| 1 | CPU Fan Connector (CPU_FAN1) | 12 | SATA3 Connector (SATA3_1) |
| 2 | Chassis Fan Connector (CHA_FAN1) | 13 | 32Mb SPI Flash |
| 3 | CPU Fan | 14 | Chassis Intrusion Header (CI1) |
| 4 | CPU Heatsink | 15 | Chassis Speaker Header (SPEAKER1) |
| 5 | 2 x 240-pin DDR3 DIMM Slots
(DDR3_A1, DDR3_A2) | 16 | Chassis Fan Connector (CHA_FAN2) |
| 6 | Clear CMOS Jumper (CLRCMOS1) | 17 | PCI Express 2.0 x16 Slot (PCIE1) |
| 7 | ATX Power Connector (ATXPWR1) | 18 | Consumer Infrared Module Header (CIR1) |
| 8 | System Panel Header (PANEL1) | 19 | USB 2.0 Header (USB8_9) |
| 9 | SATA3 Connector (SATA3_4) | 20 | USB 2.0 Header (USB6_7) |
| 10 | SATA3 Connector (SATA3_2) | 21 | Front Panel Audio Header (HD_AUDIO1) |
| 11 | SATA3 Connector (SATA3_3) | 22 | COM Port Header (COM1) |
| | | 23 | AMD A50M Chipset |

English

I/O Panel



1

PS/2 Keyboard/Mouse Port (Purple/Green)

2

VGA Port

* 3

LAN RJ-45 Port

4

Line In (Light Blue)

** 5

Front Speaker (Lime)

6

Microphone (Pink)

7

USB 2.0 Ports (USB45)

8

USB 2.0 Ports (USB01)

* There are two LED next to the LAN port. Please refer to the table below for the LAN port LED indications.

LAN Port LED Indications

Activity/Link LED	
Status	Description
Off	No Link
Blinking	Data Activity
On	Link

SPEED LED	
Status	Description
Off	10Mbps connection
Orange	100Mbps connection
Green	1Gbps connection

ACT/LINK LED

SPEED LED



LAN Port

** To enable Multi-Streaming function, you need to connect a front panel audio cable to the front panel audio header. Please refer to below steps for the software setting of Multi-Streaming.

For Windows® XP:

After restarting your computer, you will find "Mixer" tool on your system. Please select "Mixer Toolbox"  , click "Enable playback multi-streaming", and click "ok". Choose "2CH" or "4CH" and then you are allowed to select "Realtek HDA Primary output" to use Rear Speaker and Front Speaker, or select "Realtek HDA Audio 2nd output" to use front panel audio. Then reboot your system.

For Windows® 8 / 7 / Vista™:

After restarting your computer, please double-click "Realtek HD Audio Manager" on the system tray. Set "Speaker Configuration" to "Quadraphonic" or "Stereo". Click "Device advanced settings", choose "Make front and rear output devices playbacks two different audio streams simultaneously", and click "ok". Then reboot your system.

English

1. Introduction

Thank you for purchasing ASRock **E35LM1 R2.0** motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance.

This Quick Installation Guide contains introduction of the motherboard and step-by-step installation guide. More detailed information of the motherboard can be found in the user manual presented in the Support CD.



Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRock website without further notice. You may find the latest VGA cards and CPU support lists on ASRock website as well. ASRock website <http://www.asrock.com>
If you require technical support related to this motherboard, please visit our website for specific information about the model you are using.
www.asrock.com/support/index.asp

1.1 Package Contents

ASRock **E35LM1 R2.0** Motherboard (Mini-ITX Form Factor)

ASRock **E35LM1 R2.0** Quick Installation Guide

ASRock **E35LM1 R2.0** Support CD

2 x Serial ATA (SATA) Data Cables (Optional)

1 x I/O Panel Shield



ASRock Reminds You...

To get better performance in Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit, it is recommended to set the BIOS option in Storage Configuration to AHCI mode. For the BIOS setup, please refer to the "User Manual" in our support CD for details.

1.2 Specifications

Platform	- Mini-ITX Form Factor
CPU	- AMD Zacate E-240 APU - Supports AMD's Cool 'n' Quiet™ Technology - UMI 2.5 GT/s
Chipset	- AMD A50M Chipset
Memory	- 2 x DDR3 DIMM slots - Supports DDR3 1333(OC)/1066/800 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB (see CAUTION 1)
Expansion Slot	- 1 x PCI Express 2.0 x16 slot (PCI-E1 @ x4 mode)
Graphics	- Integrated AMD Radeon HD 6310 graphics - DX11 class iGPU, Pixel Shader 5.0 - Max. shared memory 512MB - Supports D-Sub with max. resolution up to 2560x1600 @ 60Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Supports Wake-On-LAN - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	I/O Panel - 1 x PS/2 Keyboard/Mouse Port - 1 x VGA Port - 4 x Ready-to-Use USB 2.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Line in / Front Speaker / Microphone
SATA3	- 4 x SATA3 6.0 Gb/s connectors, support NCQ, AHCI and "Hot Plug" functions
Connector	- 4 x SATA3 6.0Gb/s connectors - 1 x CIR header - 1 x COM port header - 1 x Chassis Intrusion header - 1 x CPU Fan connector (3-pin) - 2 x Chassis Fan connectors (1 x 4-pin, 1 x 3-pin) - 24 pin ATX power connector - Front panel audio connector

	- 2 x USB 2.0 headers (support 4 USB 2.0 ports)
BIOS Feature	- 32Mb AMI UEFI Legal BIOS with GUI support - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - DRAM, FCH, +1V, +1.8V Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite - OEM, Google Chrome Browser and Toolbar
Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU Fan Tachometer - Chassis Fan Tachometer - CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU/Chassis Fan Multi-Speed Control - CASE OPEN detection - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant (see CAUTION 2)
Certifications	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)

* For detailed product information, please visit our website: <http://www.asrock.com>

WARNING

Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS, applying Untied Overclocking Technology, or using third-party overclocking tools. Overclocking may affect your system's stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense. We are not responsible for possible damage caused by overclocking.

CAUTION!

1. Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 8 / 7 / Vista™ / XP. For Windows® OS with 64-bit CPU, there is no such limitation.
2. ASRock XFast RAM is not supported by Microsoft® Windows® XP 64-bit.

1.3 Unique Features

ASRock Instant Boot

ASRock Instant Boot allows you to turn on your PC in just a few seconds, provides a much more efficient way to save energy, time, money, and improves system running speed for your system. It leverages the S3 and S4 ACPI features which normally enable the Sleep/Standby and Hibernation modes in Windows® to shorten boot up time. By calling S3 and S4 at specific timing during the shutdown and startup process, Instant Boot allows you to enter your Windows® desktop in a few seconds.

ASRock Instant Flash

ASRock Instant Flash is a BIOS flash utility embedded in Flash ROM. This convenient BIOS update tool allows you to update system BIOS without entering operating systems first like MS-DOS or Windows®. With this utility, you can press the <F6> key during the POST or the <F2> key to enter into the BIOS setup menu to access ASRock Instant Flash. Just launch this tool and save the new BIOS file to your USB flash drive, floppy disk or hard drive, then you can update your BIOS only in a few clicks without preparing an additional floppy diskette or other complicated flash utility. Please be noted that the USB flash drive or hard drive must use FAT32/16/12 file system.

ASRock APP Charger

If you desire a faster, less restricted way of charging your Apple devices, such as iPhone/iPad/iPod Touch, ASRock has prepared a wonderful solution for you - ASRock APP Charger. Simply install the APP Charger driver, it makes your iPhone charge much quickly from your computer and up to 40% faster than before. ASRock APP Charger allows you to quickly charge many Apple devices simultaneously and even supports continuous charging when your PC enters into Standby mode (S1), Suspend to RAM (S3), hibernation mode (S4) or power off (S5). With APP Charger driver installed, you can easily enjoy the marvelous charging experience.

ASRock XFast USB

ASRock XFast USB can boost USB storage device performance. The performance may depend on the properties of the device.

ASRock XFast LAN

ASRock XFast LAN provides a faster internet access, which includes the benefits listed below. LAN Application Prioritization: You can configure your application's priority ideally and/or add new programs. Lower Latency in Game: After setting online game's priority higher, it can lower the latency in games. Traffic Shaping: You can watch Youtube HD videos and download simultaneously. Real-Time Analysis of Your Data: With the status window, you can easily recognize which data streams you are transferring currently.

ASRock XFast RAM

ASRock XFast RAM fully utilizes the memory space that cannot be used under Windows® OS 32-bit CPU. ASRock XFast RAM shortens the loading time of previously visited websites, making web surfing faster than ever. And it also boosts the speed of Adobe Photoshop 5 times faster. Another advantage of ASRock XFast RAM is that it reduces the frequency of accessing your SSDs or HDDs in order to extend their lifespan.

ASRock Crashless BIOS

ASRock Crashless BIOS allows users to update their BIOS without fear of failing. If power loss occurs during the BIOS update process, ASRock Crashless BIOS will automatically finish the BIOS update procedure after regaining power. Please note that BIOS files need to be placed in the root directory of your USB disk. Only USB2.0 ports support this feature.

ASRock OMG (Online Management Guard)

Administrators are able to establish an internet curfew or restrict internet access at specified times via OMG. You may schedule the starting and ending hours of internet access granted to other users. In order to prevent users from bypassing OMG, guest accounts without permission to modify the system time are required.

ASRock Internet Flash

ASRock Internet Flash searches for available UEFI firmware updates from our servers. In other words, the system can auto-detect the latest UEFI from our servers and flash them without entering Windows® OS. Please note that you must be running on a DHCP configured computer in order to enable this function.

ASRock UEFI System Browser

ASRock UEFI system browser is a useful tool included in graphical UEFI. It can detect the devices and configurations that users are currently using in their PC. With the UEFI system browser, you can easily examine the current system configuration in UEFI setup.

ASRock Dehumidifier Function

Users may prevent motherboard damages due to dampness by enabling "Dehumidifier Function". When enabling Dehumidifier Function, the computer will power on automatically to dehumidify the system after entering S4/S5 state.

ASRock Fast Boot

With ASRock's exclusive Fast Boot technology, it takes less than 1.5 seconds to logon to Windows® 8 from a cold boot. No more waiting! The speedy boot will completely change your user experience and behavior.

ASRock Restart to UEFI

Windows® 8 brings the ultimate boot up experience. The lightning boot up speed makes it hard to access the UEFI setup. ASRock Restart to UEFI technology is designed for those requiring frequent UEFI access. It allows users to easily enter the UEFI automatically when turning on the PC next time. Just simply enable this function; the PC will be assured to access the UEFI directly in the very beginning.

ASRock Good Night LED

ASRock Good Night LED technology can offer you a better environment by extinguishing the unessential LED. By enabling Good Night LED in BIOS, the Power / HDD / LAN LED will be switched off when system is on. Not only this, Good night LED will automatically switch off Power and Keyboard LED when the system enters into Standby / Hibernation mode as well.

2. Installation

This is a Mini-ITX form factor motherboard. Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.



Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so may cause physical injuries to you and damages to motherboard components.

2.1 Screw Holes

Place screws into the holes indicated by circles to secure the motherboard to the chassis.



Do not over-tighten the screws! Doing so may damage the motherboard.

2.2 Pre-installation Precautions

Take note of the following precautions before you install motherboard components or change any motherboard settings.

1. Unplug the power cord from the wall socket before touching any component.
2. To avoid damaging the motherboard components due to static electricity, NEVER place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that comes with the component.



Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

2.3 Installation of Memory Modules (DIMM)

E35LM1 R2.0 motherboard provides two 240-pin DDR3 (Double Data Rate 3) DIMM slots.



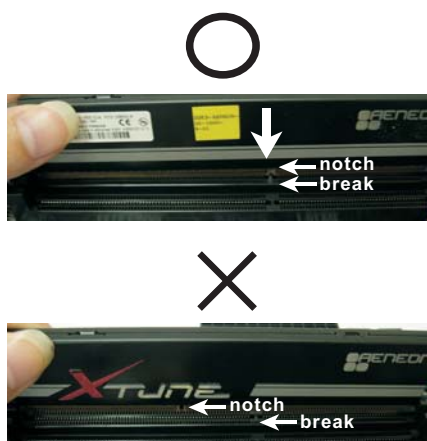
It is not allowed to install a DDR or DDR2 memory module into DDR3 slot; otherwise, this motherboard and DIMM may be damaged.

Installing a DIMM



Please make sure to disconnect power supply before adding or removing DIMMs or the system components.

- Step 1. Unlock a DIMM slot by pressing the retaining clips outward.
- Step 2. Align a DIMM on the slot such that the notch on the DIMM matches the break on the slot.



The DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation.

- Step 3. Firmly insert the DIMM into the slot until the retaining clips at both ends fully snap back in place and the DIMM is properly seated.

2.4 Expansion Slot (PCI Express Slot)

There is 1 PCI Express slot on this motherboard.

PCIE slot:

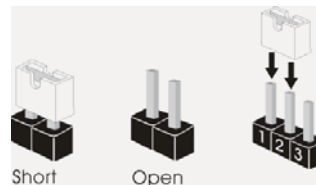
PCIE1 (PCIE x16 slot) is used for PCI Express x4 lane width graphics cards.

Installing an expansion card

- Step 1. Before installing the expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.
- Step 2. Remove the system unit cover (if your motherboard is already installed in a chassis).
- Step 3. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.
- Step 4. Align the card connector with the slot and press firmly until the card is completely seated on the slot.
- Step 5. Fasten the card to the chassis with screws.
- Step 6. Replace the system cover.

2.5 Jumpers Setup

The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is "Short". If no jumper cap is placed on pins, the jumper is "Open". The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when jumper cap is placed on these 2 pins.



Jumper	Setting	Description
Clear CMOS Jumper (CLRCMOS1) (see p.2, No. 6)	1_2 Default 2_3 Clear CMOS	

Note: CLRCMOS1 allows you to clear the data in CMOS. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRCMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action. Please be noted that the password, date, time, user default profile, 1394 GUID and MAC address will be cleared only if the CMOS battery is removed.



If you clear the CMOS, the case open may be detected. Please adjust the BIOS option "Clear Status" to clear the record of previous chassis intrusion status.

2.6 Onboard Headers and Connectors



Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage of the motherboard!

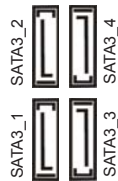
Serial ATA3 Connectors

(SATA3_1: see p.2, No. 12)

(SATA3_2: see p.2, No. 10)

(SATA3_3: see p.2, No. 11)

(SATA3_4: see p.2, No. 9)



These four Serial ATA3 (SATA3) connectors support SATA data cables for internal storage devices. The current SATA3 interface allows up to 6.0 Gb/s data transfer rate.

Serial ATA (SATA)

Data Cable

(Optional)

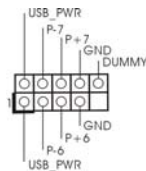


Either end of the SATA data cable can be connected to the SATA / SATA2 / SATA3 hard disk or the SATA2 / SATA3 connector on this motherboard.

USB 2.0 Headers

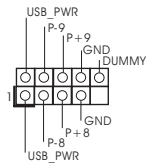
(9-pin USB6_7)

(see p.2 No. 20)



(9-pin USB8_9)

(see p.2 No. 19)



Besides four default USB 2.0 ports on the I/O panel, there are two USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

Consumer Infrared Module Header

(4-pin CIR1)

(see p.2 No. 18)



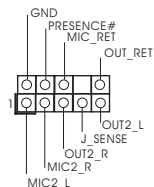
This header can be used to connect the remote controller receiver.

English

Front Panel Audio Header

(9-pin HD_AUDIO1)

(see p.2 No. 21)



This is an interface for front panel audio cable that allows convenient connection and control of audio devices.

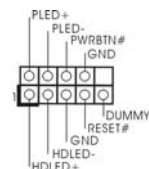


1. High Definition Audio supports Jack Sensing, but the panel wire on the chassis must support HDA to function correctly. Please follow the instruction in our manual and chassis manual to install your system.
2. If you use AC'97 audio panel, please install it to the front panel audio header as below:
 - A. Connect Mic_IN (MIC) to MIC2_L.
 - B. Connect Audio_R (RIN) to OUT2_R and Audio_L (LIN) to OUT2_L.
 - C. Connect Ground (GND) to Ground (GND).
 - D. MIC_RET and OUT_RET are for HD audio panel only. You don't need to connect them for AC'97 audio panel.
 - E. To activate the front mic.
 For Windows® XP / XP 64-bit OS:
 Select "Mixer". Select "Recorder". Then click "FrontMic".
 For Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS:
 Go to the "FrontMic" Tab in the Realtek Control panel. Adjust "Recording Volume".

System Panel Header

(9-pin PANEL1)

(see p.2 No. 8)



This header accommodates several system front panel functions.



Connect the power switch, reset switch and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

PWRBTN (Power Switch):

Connect to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch.

RESET (Reset Switch):

Connect to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.

PLED (System Power LED):

Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1 sleep state. The LED is off when the system is in S3/S4 sleep state or powered off (S5).

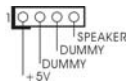
HDLED (Hard Drive Activity LED):

Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly.

Chassis Speaker Header

(4-pin SPEAKER 1)
(see p.2 No. 15)



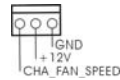
Please connect the chassis speaker to this header.

Chassis Fan Connectors

(4-pin CHA_FAN1)
(see p.2 No. 2)



(3-pin CHA_FAN2)
(see p.2 No. 16)



Please connect the fan cables to the fan connectors and match the black wire to the ground pin. CHA_FAN2 supports fan speed control by fan power voltage.

CPU Fan Connectors

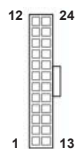
(3-pin CPU_FAN1)
(see p.2 No. 1)



Please connect the CPU fan cable to the connector and match the black wire to the ground pin. CPU_FAN1 supports fan speed control.

ATX Power Connector

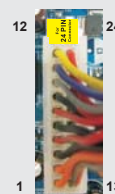
(24-pin ATXPWR1)
(see p.2 No. 7)



Please connect an ATX power supply to this connector.



Though this motherboard provides 24-pin ATX power connector, it can still work if you adopt a traditional 20-pin ATX power supply. To use the 20-pin ATX power supply, please plug your power supply along with Pin 1 and Pin 13.

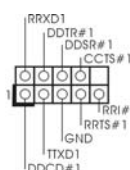


20-Pin ATX Power Supply Installation

Serial port Header

(9-pin COM1)

(see p.2 No. 22)



This COM1 header supports a serial port module.

Chassis Intrusion Header

(2-pin CI1)

(see p.2 No. 14)



This motherboard supports CASE OPEN detection feature that detects if the chassis cover has been removed. This feature requires a chassis with chassis intrusion detection design.

2.7 Driver Installation Guide

To install the drivers to your system, please insert the support CD to your optical drive first. Then, the drivers compatible to your system can be auto-detected and listed on the support CD driver page. Please follow the order from up to bottom side to install those required drivers. Therefore, the drivers you install can work properly.

2.8 Installing Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit Without RAID Functions

If you want to install Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit OS on your SATA3 HDDs without RAID functions, please follow below procedures according to the OS you install.

2.8.1 Installing Windows® XP / XP 64-bit Without RAID Functions

If you want to install Windows® XP / XP 64-bit OS on your SATA3 HDDs without RAID functions, please follow below steps.



AHCI mode is not supported under Windows® XP / XP 64-bit OS.

Using SATA3 HDDs without NCQ function

STEP 1: Set up UEFI.

- A. Enter UEFI SETUP UTILITY → Advanced screen → Storage Configuration.
- B. Set the option “SATA Mode” to [IDE].

STEP 2: Install Windows® XP / XP 64-bit OS on your system.

2.8.2 Installing Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit Without RAID Functions

If you want to install Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS on your SATA3 HDDs without RAID functions, please follow below steps.

Using STA3 HDDs without NCQ function

STEP 1: Set up UEFI.

- A. Enter UEFI SETUP UTILITY → Advanced screen → Storage Configuration.
- B. Set the option “SATA Mode” to [IDE].

STEP 2: Install Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS on your system.

Using SATA3 HDDs with NCQ function

STEP 1: Set up UEFI.

- A. Enter UEFI SETUP UTILITY → Advanced screen → Storage Configuration.
- B. Set the option “SATA Mode” to [AHCI].

STEP 2: Install Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit OS on your system.

3. BIOS Information

The Flash Memory on the motherboard stores BIOS Setup Utility. When you start up the computer, please press <F2> or <Del> during the Power-On-Self-Test (POST) to enter BIOS Setup utility; otherwise, POST continues with its test routines. If you wish to enter BIOS Setup after POST, please restart the system by pressing <Ctl> + <Alt> + <Delete>, or pressing the reset button on the system chassis. The BIOS Setup program is designed to be user-friendly. It is a menu-driven program, which allows you to scroll through its various sub-menus and to select among the pre-determined choices. For the detailed information about BIOS Setup, please refer to the User Manual (PDF file) contained in the Support CD.

4. Software Support CD information

This motherboard supports various Microsoft® Windows® operating systems: 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit. The Support CD that came with the motherboard contains necessary drivers and useful utilities that will enhance motherboard features. To begin using the Support CD, insert the CD into your CD-ROM drive. It will display the Main Menu automatically if "AUTORUN" is enabled in your computer. If the Main Menu does not appear automatically, locate and double-click on the file "ASSETUP.EXE" from the BIN folder in the Support CD to display the menus.

1. Einführung

Wir danken Ihnen für den Kauf des ASRock **E35LM1 R2.0** Motherboard, ein zuverlässiges Produkt, welches unter den ständigen, strengen Qualitätskontrollen von ASRock gefertigt wurde. Es bietet Ihnen exzellente Leistung und robustes Design, gemäß der Verpflichtung von ASRock zu Qualität und Halbarkeit. Diese Schnellinstallationsanleitung führt in das Motherboard und die schrittweise Installation ein. Details über das Motherboard finden Sie in der Bedienungsanleitung auf der Support-CD.



Da sich Motherboard-Spezifikationen und BIOS-Software verändern können, kann der Inhalt dieses Handbuches ebenfalls jederzeit geändert werden. Für den Fall, dass sich Änderungen an diesem Handbuch ergeben, wird eine neue Version auf der ASRock-Website, ohne weitere Ankündigung, verfügbar sein. Die neuesten Grafikkarten und unterstützten CPUs sind auch auf der ASRock-Website aufgelistet.

ASRock-Website: <http://www.asrock.com>

Wenn Sie technische Unterstützung zu Ihrem Motherboard oder spezifische Informationen zu Ihrem Modell benötigen, besuchen Sie bitte unsere Webseite:

www.asrock.com/support/index.asp

1.1 Kartoninhalt

ASRock **E35LM1 R2.0** Motherboard (Mini-ITX-Formfaktor)

ASRock **E35LM1 R2.0** Schnellinstallationsanleitung

ASRock **E35LM1 R2.0** Support-CD

Zwei Serial ATA (SATA) -Datenkabel (optional)

Ein I/O Shield



ASRock erinnert...

Zur besseren Leistung unter Windows® 8 / 8 64 Bit / 7 / 7 64 Bit / Vista™ / Vista™ 64 Bit empfehlen wir, die Speicherkonfiguration im BIOS auf den AHCI-Modus einzustellen. Hinweise zu den BIOS-Einstellungen finden Sie in der Bedienungsanleitung auf der mitgelieferten CD.

1.2 Spezifikationen

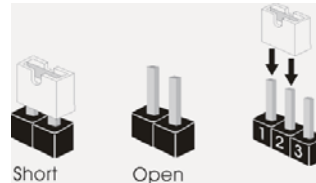
Plattform	- Mini-ITX-Formfaktor
CPU	- AMD Zacate E-240 APU - Unterstützt Cool 'n' Quiet™-Technologie von AMD - UMI 2.5 GT/s
Chipsatz	- AMD A50M Chipsatz
Speicher	- 2 x Steckplätze für DDR3 - Unterstützt DDR3 1333(OC)/1066/800 non-ECC, ungepufferter Speicher - Max. Kapazität des Systemspeichers: 16GB
Erweiterungssteckplätze	- 1 x PCI Express 2.0 x16-Steckplatz (PCI-E für x4-Modus)
Onboard-VGA	- Integrierte AMD Radeon HD 6310-Grafik - DX11 Klasse iGPU, Pixel Shader 5.0 - Maximal gemeinsam genutzter Speicher 512MB - Unterstützt D-Sub mit einer maximalen Auflösung von 2560 x 1600 bei 60 Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	- PCI-E x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Unterstützt Wake-On-LAN - Unterstützt LAN-Kabelerkennung - Unterstützt energieeffizientes Ethernet 802.3az - Unterstützt PXE
E/A-Anschlüsse an der Rückseite	I/O Panel - 1 x PS/2-Tastaturanschluss/Mausanschluss - 1 x VGA port - 4 x Standard-USB 2.0-Anschlüsse - 1 x RJ-45 LAN Port mit LED (ACT/LINK LED und SPEED LED) - HD Audiobuchse: Audioeingang / Lautsprecher vorne / Mikrofon
SATA3	- 4 x SATA 3-Anschlüsse (6,0 Gb/s); unterstützt NCQ-, AHCI- und „Hot Plug“ (Hot-Plugging)-Funktionen
Anschlüsse	- 4 x SATA3 6,0 GB/s-Anschlüsse - 1 x Consumer Infrared-Modul-Header - 1 x COM-Anschluss-Header - 1 x Verteiler für Gehäuseeindringversuche - 1 x CPU-Lüfter-Anschluss (3-pin) - 2 x Gehäuselüfter-Anschluss (1 x 4-pin, 1 x 3-pin)

	- 24-pin ATX-Netz-Header - Anschluss für Audio auf der Gehäusevorderseite - 2 x USB 2.0-Anschlüsse (Unterstützung 4 zusätzlicher USB 2.0-Anschlüsse)
BIOS	- 32Mb AMIs Legal BIOS UEFI mit GUI-Unterstützung - Unterstützung für "Plug and Play" - ACPI 1.1-Weckfunktionen - JumperFree-Übertaktungstechnologie - SMBIOS 2.3.1 - DRAM, FCH, +1V, +1.8V Stromspannung Multianpassung
CD d'assistance	- Treiber, Dienstprogramme, Antivirussoftware (Probeversion), CyberLink MediaEspresso 6.5-Testversion, ASRock MAGIX-Multimedia-Suite - OEM, Google Chrome Browser und Toolbar
Hardware Monitor	- Überwachung der CPU-Temperatur - Motherboardtemperaturerkennung - Drehzahlmessung für CPU-Lüfter - Drehzahlmessung für Gehäuselüfter - Geräuscharmer CPU-Lüfter (ermöglicht die automatische Anpassung der Gehäuselüftergeschwindigkeit durch CPU-Temperatur) - Mehrstufige Geschwindigkeitssteuerung für CPU/Gehäuselüfter - GEHÄUSE OFFEN-Erkennung - Spannungsüberwachung: +12V, +5V, +3.3V, Vcore
Betriebssysteme	- Unterstützt Microsoft® Windows® 8 / 8 64-Bit / 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit / XP / XP 64-Bit
Zertifizierungen	- FCC, CE, WHQL - Gemäß Ökodesign-Richtlinie (ErP/EuP) (Stromversorgung gemäß Ökodesign-Richtlinie (ErP/EuP) erforderlich)

* Für die ausführliche Produktinformation, besuchen Sie bitte unsere Website:
<http://www.asrock.com>

1.3 Einstellung der Jumper

Die Abbildung verdeutlicht, wie Jumper gesetzt werden. Werden Pins durch Jumperkappen verdeckt, ist der Jumper "Gebrückt". Werden keine Pins durch Jumperkappen verdeckt, ist der Jumper "Offen". Die Abbildung zeigt einen 3-Pin Jumper dessen Pin1 und Pin2 "Gebrückt" sind, bzw. es befindet sich eine Jumper-Kappe auf diesen beiden Pins.



Jumper	Einstellung	Beschreibung
CMOS löschen (CLRCMOS1, 3-Pin jumper) (siehe S.2, No. 6)	1_2 Default-Einstellung 2_3 CMOS löschen	

Hinweis: CLRCMOS1 ermöglicht Ihnen die Löschung der Daten im CMOS. Zum Löschen und Zurücksetzen der Systemparameter auf die Standardeinrichtung schalten Sie den Computer bitte aus und trennen das Netzkabel von der Stromversorgung. Warten Sie 15 Sekunden, schließen Sie dann Pin2 und Pin3 am CLRCMOS1 über einen Jumper fünf Sekunden lang kurz. Sie sollten das CMOS allerdings nicht direkt nach der BIOS-Aktualisierung löschen. Wenn Sie das CMOS nach Abschluss der BIOS-Aktualisierung löschen müssen, fahren Sie zuerst das System hoch. Fahren Sie es dann vor der CMOS-Löschung herunter. Bitte beachten Sie, dass Kennwort, Datum, Uhrzeit, benutzerdefiniertes Profil, 1394 GUID und MAC-Adresse nur gelöscht werden, wenn die CMOS-Batterie entfernt wird.



Durch Löschen des CMOS kann erkannt werden, wenn das Gehäuse offen ist. Bitte stellen Sie zum Löschen der Aufzeichnung des vorherigen Gehäuseeintrittsstatus die BIOS-Option "Status leeren" ein.

1.4 Integrierte Header und Anschlüsse



Integrierte Header und Anschlüsse sind KEINE Jumper. Setzen Sie KEINE Jumperkappen auf diese Header und Anschlüsse. Wenn Sie Jumperkappen auf Header und Anschlüsse setzen, wird das Motherboard unreparierbar beschädigt!

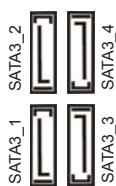
Seriell-ATA3-Anschlüsse

(SATA3_1: siehe S.2 - No. 12)

(SATA3_2: siehe S.2 - No. 10)

(SATA3_3: siehe S.2 - No. 11)

(SATA3_4: siehe S.2 - No. 9)



Diese vier Serial ATA3- (SATA3-)Verbinder unterstützen SATA-Datenkabel für interne Massenspeichergeräte. Die aktuelle SATA3- Schnittstelle ermöglicht eine Datenübertragungsrate bis 6,0 Gb/s.

Serial ATA- (SATA-) Datenkabel

(Option)

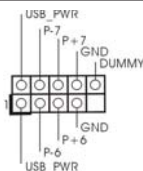


Jedes Ende des SATA Datenkabels kann an die SATA / SATAII / SATA3 Festplatte oder das SATAII / SATA3 Verbindungsstück auf dieser Hauptplatine angeschlossen werden.

USB 2.0-Header

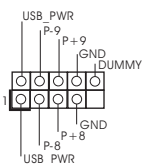
(9-pol. USB6_7)

(siehe S.2 - No. 20)



(9-pol. USB8_9)

(siehe S.2 - No. 19)



Zusätzlich zu den vier üblichen USB 2.0-Ports an den I/O-Anschlüssen befinden sich zwei USB 2.0-Anschlussleisten am Motherboard. Pro USB 2.0-Anschlussleiste werden zwei USB 2.0-Ports unterstützt.

Consumer Infrared-Modul-Header

(4-pin CIR1)

(siehe S.2 - No. 18)

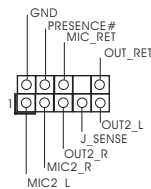


Dieser Header kann zum Anschließen Remote-Empfänger.

Deutsch

Anschluss für Audio auf der Gehäusevorderseite

(9-Pin HD_AUDIO1)
(siehe S.2 - No. 21)



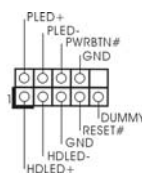
Dieses Interface zu einem Audio-Panel auf der Vorderseite Ihres Gehäuses, ermöglicht Ihnen eine bequeme Anschlussmöglichkeit und Kontrolle über Audio-Geräte.



1. High Definition Audio unterstützt Jack Sensing (automatische Erkennung falsch angeschlossener Geräte), wobei jedoch die Bildschirmverdrahtung am Gehäuse HDA unterstützen muss, um richtig zu funktionieren. Beachten Sie bei der Installation im System die Anweisungen in unserem Handbuch und im Gehäusehandbuch.
2. Wenn Sie die AC'97-Audibleiste verwenden, installieren Sie diese wie nachstehend beschrieben an der Front-Audioanschlussleiste:
 - A. Schließen Sie Mic_IN (MIC) an MIC2_L an.
 - B. Schließen Sie Audio_R (RIN) an OUT2_R und Audio_L (LIN) an OUT2_L an.
 - C. Schließen Sie Ground (GND) an Ground (GND) an.
 - D. MIC_RET und OUT_RET sind nur für den HD-Audioanschluss gedacht. Diese Anschlüsse müssen nicht an die AC'97-Audibleiste angeschlossen werden.
 - E. So aktivieren Sie das Mikrofon an der Vorderseite.
Bei den Betriebssystemen Windows® XP / XP 64 Bit:
Wählen Sie „Mixer“. Wählen Sie „Recorder“ (Rekorder). Klicken Sie dann auf „FrontMic“ (Vorderes Mikrofon).
Bei den Betriebssystemen Windows® 8 / 8 64 Bit / 7 / 7 64 Bit / Vista™ / Vista™ 64 Bit:
Wählen Sie im Realtek-Bedienfeld die „FrontMic“ (Vorderes Mikrofon)-Registerkarte. Passen Sie die „Recording Volume“ (Aufnahmelautstärke) an.

System Panel-Header

(9-pin PANEL1)
(siehe S.2 - No. 8)



Dieser Header unterstützt mehrere Funktion der Systemvorderseite.



Schließen Sie die Ein-/Austaste, die Reset-Taste und die Systemstatusanzeige am Gehäuse an diesen Header an; befolgen Sie dabei die nachstehenden Hinweise zur Pinbelegung. Beachten Sie die positiven und negativen Pins, bevor Sie die Kabel anschließen.

PWRBTN (Ein-/Ausschalter):

Zum Anschließen des Ein-/Ausschalters an der Frontblende des Gehäuses. Sie können konfigurieren, wie das System mit Hilfe des Ein-/Ausschalters ausgeschaltet werden können soll.

RESET (Reset-Taste):

Zum Anschließen der Reset-Taste an der Frontblende des Gehäuses. Mit der Reset-Taste können Sie den Computer im Falle eines Absturzes neu starten.

PLED (Systembetriebs-LED):

Zum Anschließen der Betriebsstatusanzeige an der Frontblende des Gehäuses. Die LED leuchtet, wenn das System in Betrieb ist. Die LED blinkt, wenn sich das System im Ruhezustand S1 befindet. Die LED schaltet sich aus, wenn sich das System in den Modi S3/S4 befindet oder ausgeschaltet ist (S5).

HDLED (Festplattenaktivitäts-LED):

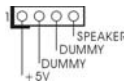
Zum Anschließen der Festplattenaktivitäts-LED an der Frontblende des Gehäuses. Die LED leuchtet, wenn die Festplatte Daten liest oder schreibt.

Das Design der Frontblende kann je nach Gehäuse variieren. Ein Frontblendenmodul besteht hauptsächlich aus einer Ein-/Austaste, einer Reset-Taste, einer Betriebs-LED, einer Festplattenaktivitäts-LED, Lautsprechern, etc. Stellen Sie beim Anschließen des Frontblendenmoduls Ihres Gehäuses an diesem Header sicher, dass die Kabel- und Pinbelegung korrekt übereinstimmen.

Gehäuselautsprecher-Header

(4-pin SPEAKER1)

(siehe S.2 - No. 15)



Schließen Sie den Gehäuselautsprecher an diesen Header an.

Gehäuse Lüfteranschlüsse

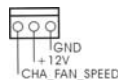
(4-pin CHA_FAN1)

(siehe S.2 - No. 2)



(3-pin CHA_FAN2)

(siehe S.2 - No. 16)



Verbinden Sie die Lüfterkabel mit den Lüfteranschlüssen, wobei der schwarze Draht an den Schutzleiterstift angeschlossen wird.

CPU-Lüfteranschluss

(3-pin CPU_FAN1)

(siehe S.2 - No. 1)

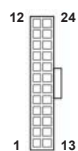


Verbinden Sie das CPU - Lüfterkabel mit diesem Anschluss und passen Sie den schwarzen Draht dem Erdungsstift an.

ATX-Netz-Header

(24-pin ATXPWR1)

(siehe S.2 - No. 7)



Verbinden Sie die ATX-Stromversorgung mit diesem Header.

Deutsch



Obwohl dieses Motherboard einen 24-pol. ATX-Stromanschluss bietet, kann es auch mit einem modifizierten traditionellen 20-pol. ATX-Netzteil verwendet werden. Um ein 20-pol. ATX-Netzteil zu verwenden, stecken Sie den Stecker mit Pin 1 und Pin 13 ein.

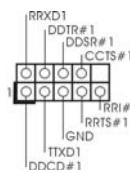
Installation eines 20-pol. ATX-Netzteils



COM-Anschluss-Header

(9-pin COM1)

(siehe S.2 - No. 22)



Dieser COM-Anschluss-

Header wird verwendet, um ein COM-Anschlussmodul zu unterstützen.

Verteiler für Gehäuseeindringversuche

(2-pin Cl1)

(siehe S.2 - No. 14)



Dieses Motherboard unterstützt die GEHÄUSE OFFEN-Erkennungsfunktion, die feststellt, ob die Gehäuseabdeckung entfernt wurde. Für diese Funktion ist ein Gehäuse erforderlich, das mit einem Design zur Erkennung von Gehäuseeindringversuchen ausgestattet ist.

2. BIOS-Information

Das Flash Memory dieses Motherboards speichert das Setup-Utility. Drücken Sie <F2> oder <Del> während des POST (Power-On-Self-Test) um ins Setup zu gelangen, ansonsten werden die Testroutinen weiter abgearbeitet. Wenn Sie ins Setup gelangen wollen, nachdem der POST durchgeführt wurde, müssen Sie das System über die Tastenkombination <Ctrl> + <Alt> + <Delete> oder den Reset-Knopf auf der Gehäusevorderseite, neu starten. Natürlich können Sie einen Neustart auch durchführen, indem Sie das System kurz ab- und danach wieder anschalten.

Das Setup-Programm ist für eine bequeme Bedienung entwickelt worden. Es ist ein menügesteuertes Programm, in dem Sie durch unterschiedliche Untermenüs scrollen und die vorab festgelegten Optionen auswählen können. Für detaillierte Informationen zum BIOS-Setup, siehe bitte das Benutzerhandbuch (PDF Datei) auf der Support CD.

3. Software Support CD information

Dieses Motherboard unterstützt eine Reihe von Microsoft® Windows® Betriebssystemen: 8 / 8 64-Bit / 7 / 7 64-Bit / Vista™ / Vista™ 64-Bit / XP / XP 64-Bit. Die Ihrem Motherboard beigelegte Support-CD enthält hilfreiche Software, Treiber und Hilfsprogramme, mit denen Sie die Funktionen Ihres Motherboards verbessern können. Legen Sie die Support-CD zunächst in Ihr CD-ROM-Laufwerk ein. Der Willkommensbildschirm mit den Installationsmenüs der CD wird automatisch aufgerufen, wenn Sie die "Autorun"-Funktion Ihres Systems aktiviert haben.

Erscheint der Willkommensbildschirm nicht, so "doppelklicken" Sie bitte auf das File ASSETUP.EXE im BIN-Verzeichnis der Support-CD, um die Menüs aufzurufen.

Das Setup-Programm soll es Ihnen so leicht wie möglich machen. Es ist menügesteuert, d.h. Sie können in den verschiedenen Untermenüs Ihre Auswahl treffen und die Programme werden dann automatisch installiert.

1. Introduction

Merci pour votre achat d'une carte mère ASRock **E35LM1 R2.0**, une carte mère très fiable produite selon les critères de qualité rigoureux de ASRock. Elle offre des performances excellentes et une conception robuste conformément à l'engagement d'ASRock sur la qualité et la fiabilité au long terme.

Ce Guide d'installation rapide présente la carte mère et constitue un guide d'installation pas à pas. Des informations plus détaillées concernant la carte mère pourront être trouvées dans le manuel l'utilisateur qui se trouve sur le CD d'assistance.



Les spécifications de la carte mère et le BIOS ayant pu être mis à jour, le contenu de ce manuel est sujet à des changements sans notification. Au cas où n'importe quelle modification intervenait sur ce manuel, la version mise à jour serait disponible sur le site web ASRock sans nouvel avis. Vous trouverez les listes de prise en charge des cartes VGA et CPU également sur le site Web ASRock.

Site web ASRock, <http://www.asrock.com>

Si vous avez besoin de support technique en relation avec cette carte mère, veuillez consulter notre site Web pour de plus amples informations particulières au modèle que vous utilisez.
www.asrock.com/support/index.asp

1.1 Contenu du paquet

Carte mère ASRock **E35LM1 R2.0** (Facteur de forme Mini-ITX)

Guide d'installation rapide ASRock **E35LM1 R2.0**

CD de soutien ASRock **E35LM1 R2.0**

Deux câbles de données de série ATA (SATA) (en option)

Un I/O Panel Shield



ASRock vous rappelle...

Pour bénéficier des meilleures performances sous Windows® 8 / 8 64 bits / 7 / 7 64 bits / Vista™ / Vista™ 64 bits, il est recommandé de paramétrer l'option BIOS dans Configuration de stockage en mode AHCI. Pour plus de détails sur l'installation BIOS, référez-vous au "Mode d'emploi" sur votre CD de support.

1.2 Spécifications

Format	- Facteur de forme Mini-ITX
CPU	- AMD Zacate E-240 APU - Supporte la technologie Cool 'n' Quiet™ d'AMD - UMI 2.5 GT/s
Chipsets	- AMD A50M Chipsets
Mémoire	- 2 x slots DIMM DDR3 - Supporter DDR3 1333(OC)/1066/800 non-ECC, sans amortissement mémoire - Capacité maxi de mémoire système: 16GB
Slot d'extension	- 1 x slot PCI Express 2.0 x16 (PCIe1 @ mode x4)
VGA sur carte	- Graphiques intégrés à l'AMD Radeon HD 6310 - DX11 classe iGPU, nuanceur de pixels 5.0 - mémoire partagée max 512MB - Prend en charge le D-Sub avec une résolution maximale jusqu'à 2560x1600 @ 60Hz
Audio	- 5,1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Support du Wake-On-LAN - Prise en charge de la détection de câble LAN - Prend en charge la norme Energy Efficient Ethernet (Ethernet à efficacité énergétique) 802.3az - Supporte PXE
Panneau arrière	I/O Panel - 1 x port clavier/souris PS/2 - 1 x port VGA - 4 x ports USB 2.0 par défaut - 1 x port LAN RJ-45 avec LED (ACT/LED CLIGNOTANTE et LED VITESSE) - Prise HD Audio: Entrée Ligne / Haut-parleur frontal / Microphone
SATA3	- 4 x connecteurs SATA3 6,0 Gb/s, prennent en charge les fonctions NCQ, AHCI et « Hot Plug » (Branchement à chaud)
Connecteurs	- 4 x connecteurs SATA3, prennent en charge un taux de transfert de données pouvant aller jusqu'à 6.0Go/s - 1 x Barrette pour module à infrarouges grand public - 1 x En-tête de port COM - 1 x Embase d'intrusion châssis

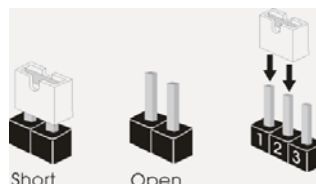
	- 1 x Connecteur pour ventilateur de CPU (br. 3) - 2 x Connecteur pour ventilateur de Châssis (1 x br. 4, 1 x br. 3) - br. 24 connecteur d'alimentation ATX - Connecteur audio panneau avant - 2 x En-tête USB 2.0 (prendre en charge 4 ports USB 2.0 supplémentaires)
BIOS	- 32Mb AMI UEFI Legal BIOS avec support GUI - Support du "Plug and Play" - Compatible pour événements de réveil ACPI 1.1 - Gestion jumperless - Support SMBIOS 2.3.1 - DRAM, FCH, +1V, +1.8V Tension Multi-ajustement
CD d'assistance	- Pilotes, utilitaires, logiciel anti-virus (version d'évaluation), CyberLink MediaEspresso 6.5 Trial, Suite multimédia ASRock MAGIX - OEM, Google Chrome Browser et Toolbar
Surveillance système	- Contrôle de la température CPU - Mesure de température de la carte mère - Tachéomètre ventilateur processeur - Tachéomètre ventilateur châssis - Ventilateur silencieux pour unité centrale (permet le réglage automatique de la vitesse du ventilateur pour châssis, selon la température de l'unité centrale) - Commande de ventilateur processeur/châssis à plusieurs vitesses - Détection d'OUVERTURE DE BOÎTIER - Monitoring de la tension: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit
Certifications	- FCC, CE, WHQL - Prêt pour ErP/EuP (alimentation Prêt pour ErP/EuP requise)

* Pour de plus amples informations sur les produits, s'il vous plaît visitez notre site web:

<http://www.asrock.com>

1.3 Réglage des cavaliers

L'illustration explique le réglage des cavaliers. Quand un capuchon est placé sur les broches, le cavalier est « FERME ». Si aucun capuchon ne relie les broches, le cavalier est « OUVERT ». L'illustration montre un cavalier à 3 broches dont les broches 1 et 2 sont « FERMEES » quand le capuchon est placé sur ces 2 broches.



Le cavalier	Description	
Effacer la CMOS (CLR CMOS1) (voir p.2 fig. 6)	 1_2 Paramètres par défaut	 2_3 Effacer la CMOS

Remarque : CLRCMOS1 vous permet d'effacer les données du CMOS. Pour effacer et réinitialiser les paramètres du système à la configuration originale, veuillez éteindre l'ordinateur et débrancher le cordon d'alimentation de la prise de courant. Après 15 secondes, utilisez un couvercle de jumper pour court-circuiter les broches pin2 et pin3 de CLRCMOS1 pendant 5 secondes. Veuillez cependant ne pas effacer le CMOS immédiatement après avoir mis à jour le BIOS. Si vous avez besoin d'effacer le CMOS après avoir mis à jour le BIOS, vous devez allumer en premier le système, puis l'éteindre avant de continuer avec l'opération d'effacement du CMOS. Veuillez noter que le mot de passe, la date, l'heure, le profil par défaut de l'utilisateur, 1394 GUID et l'adresse MAC seront effacés seulement si la batterie du CMOS est enlevée.



Si vous effacez la CMOS, il se peut qu'une ouverture du boîtier soit détectée. Veuillez ajuster l'option du BIOS "Clear Status" (Effacer l'état) pour effacer la mention d'état d'intrusion dans le châssis.

1.4 En-têtes et Connecteurs sur Carte



Les en-têtes et connecteurs sur carte NE SONT PAS des cavaliers. NE PAS placer les capuchons de cavalier sur ces en-têtes et connecteurs. Le fait de placer les capuchons de cavalier sur les en-têtes et connecteurs causera à la carte mère des dommages irréversibles!

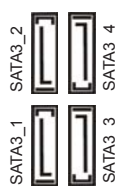
Connecteurs Série ATA3

(SATA3_1: voir p.2 No. 12)

(SATA3_2: voir p.2 No. 10)

(SATA3_3: voir p.2 No. 11)

(SATA3_4: voir p.2 No. 9)



Ces quatre connecteurs Série ATA3 (SATA3) prennent en charge les câbles SATA pour les périphériques de stockage internes. L'interface SATA3 actuelle permet des taux transferts de données pouvant aller jusqu'à 6,0 Gb/s.

Câble de données
Série ATA (SATA)
(en option)

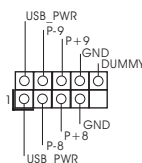


Toute cote du câble de data SATA peut être connectée au disque dur SATA / SATAII / SATA3 ou au connecteur SATAII / SATA3 sur la carte mère.

En-tête USB 2.0

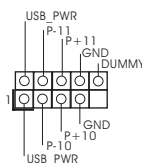
(USB6_7 br.9)

(voir p.2 No. 20)



(USB8_9 br.9)

(voir p.2 No. 19)



À côté des quatre ports USB 2.0 par défaut sur le panneau E/S, il y a deux embases USB 2.0 sur cette carte mère. Chaque embase USB 2.0 peut prendre en charge 2 ports USB 2.0.

Barrette pour module à infrarouges grand public

(CIR1 br.4)

(voir p.2 No. 18)

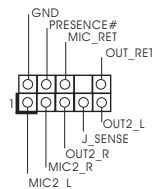


Cette barrette peut être utilisée pour connecter des récepteurs.

Connecteur audio panneau

(HD_AUDIO1 br. 9)

(voir p.2 No. 21)



C'est une interface pour un câble avant audio en façade qui permet le branchement et le contrôle commodes de périphériques audio.

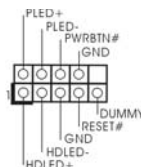


1. L'audio à haute définition (HDA) prend en charge la détection de fiche, mais le fil de panneau sur le châssis doit prendre en charge le HDA pour fonctionner correctement. Veuillez suivre les instructions dans notre manuel et le manuel de châssis afin d'installer votre système.
2. Si vous utilisez le panneau audio AC'97, installez-le sur l'adaptateur audio du panneau avant conformément à la procédure ci-dessous :
 - A. Connectez Mic_IN (MIC) à MIC2_L.
 - B. Connectez Audio_R (RIN) à OUT2_R et Audio_L (LIN) à OUT2_L.
 - C. Connectez Ground (GND) à Ground (GND).
 - D. MIC_RET et OUT_RET sont réservés au panneau audio HD. Vous n'avez pas besoin de les connecter pour le panneau audio AC'97.
 - E. Pour activer le micro avant.
Pour les systèmes d'exploitation Windows® XP / XP 64 bits :
Sélectionnez "Mixer". Sélectionnez "Recorder" (Enregistreur). Puis cliquez sur "FrontMic" (Micro avant).
Pour les systèmes d'exploitation Windows® 8 / 8 64 bits / 7 / 7 64 bits / Vista™ / Vista™ 64 bits :
Allez sur l'onglet "FrontMic" (Micro avant) sur le Panneau de contrôle Realtek. Ajustez "Recording Volume" (Volume d'enregistrement).

En-tête du panneau système

(PANEL1 br.9)

(voir p.2 No. 8)



Cet en-tête permet d'utiliser plusieurs fonctions du panneau système frontal.



Connectez l'interrupteur d'alimentation, l'interrupteur de réinitialisation et l'indicateur d'état du système du châssis sur cette barrette en respectant l'affectation des broches décrite ci-dessous. Faites attention aux broches positives et négatives avant de connecter les câbles.

PWRBTN (Interrupteur d'alimentation):

Connectez ici le connecteur d'alimentation sur le panneau avant du châssis. Vous pouvez configurer la façon de mettre votre système hors tension avec l'interrupteur d'alimentation.

RESET (Interrupteur de réinitialisation):

Connectez ici le connecteur de réinitialisation sur le panneau avant du châssis. Appuyez sur l'interrupteur de réinitialisation pour redémarrer l'ordinateur s'il se bloque ou s'il n'arrive pas à redémarrer normalement.

PLED (DEL alimentation système):

Connectez ici l'indicateur d'état de l'alimentation sur le panneau avant du châssis. Ce voyant DEL est allumé lorsque le système est en marche. Le voyant DEL clignote lorsque le système est en mode veille S1. Le voyant DEL est éteint lorsque le système est en mode veille S3/S4 ou lorsqu'il est éteint (S5).

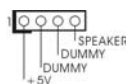
HDLED (DEL activité du disque dur):

Connectez ici le voyant DEL d'activité du disque dur sur le panneau avant du châssis. Ce voyant DEL est allumé lorsque le disque dur est en train de lire ou d'écrire des données.

Le design du panneau avant peut varier en fonction du châssis. Un module de panneau avant consiste principalement en : interrupteur d'alimentation, interrupteur de réinitialisation, voyant DEL d'alimentation, voyant DEL d'activité du disque dur, haut-parleur, etc. Lorsque vous connectez le panneau avant de votre châssis sur cette barrette, vérifiez bien à faire correspondre les fils et les broches.

**En-tête du haut-parleur
de châssis**

(SPEAKER1 br. 4)
(voir p.2 No. 15)



Veuillez connecter le
haut-parleur de châssis sur
cet en-tête.

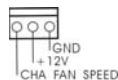
Connecteur pour châssis

(CHA_FAN1 br. 4)
(voir p.2 No. 2)



Branchez les câbles du
ventilateur aux connecteurs pour
ventilateur et faites correspondre
le fil noir à la broche de terre.

(CHA_FAN2 br. 3)
(voir p.2 No. 16)


**Connecteur du ventilateur
de l'UC**

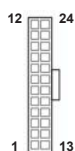
(CPU_FAN1 br. 3)
(voir p.2 No. 1)



Veuillez connecter le câble de
ventilateur d'UC sur ce
connecteur et brancher le fil
noir sur la broche de terre.

En-tête d'alimentation ATX

(ATXPWR1 br. 24)
(voir p.2 No. 7)



Veuillez connecter l'unité
d'alimentation ATX sur cet en-
tête.



Bien que cette carte mère fournisse un connecteur de courant ATX 24 broches, elle peut encore fonctionner si vous adopter une alimentation traditionnelle ATX 20 broches. Pour utiliser une alimentation ATX 20 broches, branchez à l'alimentation électrique ainsi qu'aux broches 1 et 13.

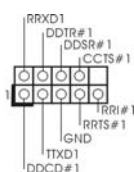
20-Installation de l'alimentation électrique ATX



En-tête de port COM

(COM1 br.9)

(voir p.2 No. 22)



Cette en-tête de port COM est utilisée pour prendre en charge un module de port COM.

Embase d'intrusion châssis

(CI1 br.2)

(voir p.2 No. 14)



Cette carte-mère prend en charge la détection d'OUVERTURE DE BOÎTIER, qui détecte tout retrait du capot du châssis. Cette fonction nécessite un châssis qui a été conçu pour la détection d'intrusion dans le châssis.

2. Informations sur le BIOS

La puce Flash Memory sur la carte mère stocke le Setup du BIOS. Lorsque vous démarrez l'ordinateur, veuillez presser <F2> ou <Del> pendant le POST (Power-On-Self-Test) pour entrer dans le BIOS; sinon, le POST continue ses tests de routine. Si vous désirez entrer dans le BIOS après le POST, veuillez redémarrer le système en pressant <Ctl> + <Alt> + <Suppr>, ou en pressant le bouton de reset sur le boîtier du système. Vous pouvez également redémarrer en éteignant le système et en le rallumant. L'utilitaire d'installation du BIOS est conçu pour être convivial. C'est un programme piloté par menu, qui vous permet de faire défiler par ses divers sous-menus et de choisir parmi les choix prédéterminés. Pour des informations détaillées sur le BIOS, veuillez consulter le Guide de l'utilisateur (fichier PDF) dans le CD technique.

3. Informations sur le CD de support

Cette carte mère supporte divers systèmes d'exploitation Microsoft® Windows®: 8 / 8 64 bits / 7 / 7 64 bits / Vista™ / Vista™ 64 bits / XP / XP 64 bits. Le CD technique livré avec cette carte mère contient les pilotes et les utilitaires nécessaires pour améliorer les fonctions de la carte mère. Pour utiliser le CD technique, insérez-le dans le lecteur de CD-ROM. Le Menu principal s'affiche automatiquement si "AUTORUN" est activé dans votre ordinateur. Si le Menu principal n'apparaît pas automatiquement, localisez dans le CD technique le fichier "ASSETUP.EXE" dans le dossier BIN et double-cliquez dessus pour afficher les menus.

1. Introduzione

Grazie per aver scelto una scheda madre ASRock **E35LM1 R2.0**, una scheda madre affidabile prodotta secondo i severi criteri di qualità ASRock. Le prestazioni eccellenti e il design robusto si conformano all'impegno di ASRock nella ricerca della qualità e della resistenza.

Questa Guida Rapida all'Installazione contiene l'introduzione alla motherboard e la guida passo-passo all'installazione. Informazioni più dettagliate sulla motherboard si possono trovare nel manuale per l'utente presente nel CD di supporto.



Le specifiche della scheda madre e il software del BIOS possono essere aggiornati, pertanto il contenuto di questo manuale può subire variazioni senza preavviso. Nel caso in cui questo manuale sia modificato, la versione aggiornata sarà disponibile sul sito di ASRock senza altro avviso. Sul sito ASRock si possono anche trovare le più recenti schede VGA e gli elenchi di CPU supportate.

ASRock website <http://www.asrock.com>

Se si necessita dell'assistenza tecnica per questa scheda madre, visitare il nostro sito per informazioni specifiche sul modello che si sta usando.

www.asrock.com/support/index.asp

1.1 Contenuto della confezione

Scheda madre ASRock **E35LM1 R2.0** (Mini-ITX Form Factor)

Guida di installazione rapida ASRock **E35LM1 R2.0**

CD di supporto ASRock **E35LM1 R2.0**

Due cavi dati Serial ATA (SATA) (opzionali)

Un I/O Shield



ASRock vi ricorda...

Per ottenere migliori prestazioni in Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit, si consiglia di impostare l'opzione BIOS in Storage Configuration (Configurazione di archiviazione) sulla modalità AHCI. Per l'impostazione BIOS, fare riferimento a "User Manual" (Manuale dell'utente) nel CD di supporto per dettagli.

1.2 Specifiche

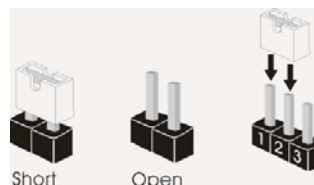
Piattaforma	- Mini-ITX Form Factor
Processore	- AMD Zacate E-240 APU - Supporto tecnologia AMD Cool 'n' Quiet™ - UMI 2.5 GT/s
Chipset	- AMD A50M Chipset
Memoria	- 2 x slot DDR3 DIMM - Supporto DDR3 1333(OC)/1066/800 non-ECC, memoria senza buffer - Capacità massima della memoria di sistema: 16GB
Slot di espansione	- 1 x Alloggi PCI Express 2.0 x16 (PCIE1 a modalità x4)
VGA su scheda	- Grafica AMD Radeon HD 6310 integrata - iGPU classe DX11, Pixel Shader 5.0 - Memoria massima condivisa 512MB - Supporta D-Sub con risoluzione massima fino a 2560x1600 @ 60Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Supporta Wake-On-LAN - Supporta il rilevamento cavo LAN - Supporto di Energy Efficient Ethernet 802.3az - Supporta PXE
Pannello posteriore I/O	I/O Panel - 1 x porta PS/2 per tastiera/mouse - 1 x Porta VGA - 4 x porte USB 2.0 già integrate - 1 x porte LAN RJ-45 con LED (LED azione/collegamento e LED velocità) - Connettore HD Audio: ingresso linea / cassa frontale / microfono
SATA3	- 4 x Connettori SATA3 6,0Gb/s, supporto delle funzioni NCQ, AHCI e "Hot Plug"
Connettori	- 4 x connettori SATA3 6.0Go/s - 1 x Connettore modulo infrarosso consumer - 1 x collettore porta COM - 1 x header di intrusione dello chassis - 1 x Connettore CPU ventola (3-pin) - 2 x Connettore Chassis ventola (1 x 4-pin, 1 x 3-pin)

	- 24-pin collettore alimentazione ATX - Connettore audio sul pannello frontale - 2 x Collettore USB 2.0 (supporta 4 porte USB 2.0)
BIOS	- 32Mb AMI UEFI Legal BIOS con interfaccia di supporto - Supporta "Plug and Play" - Compatibile con ACPI 1.1 wake up events - Supporta jumperfree - Supporta SMBIOS 2.3.1 - Regolazione multi-voltaggio DRAM, FCH, +1V, +1.8V
CD di supporto	- Driver, Utilità, Software AntiVirus (versione di prova), CyberLink MediaEspresso 6.5 Trial, Suite multimediale ASRock MAGIX - OEM, Google Chrome Browser e Toolbar
Monitoraggio Hardware	- Sensore per la temperatura del processore - Sensore temperatura scheda madre - Indicatore di velocità per la ventola del CPU Alimentazione - Indicatore di velocità per la ventola del Chassis Alimentazione - Ventola CPU silenziosa (permette la regolazione automatica della ventola dello chassis in base alla temperatura della CPU) - Ventola CPU/chassis con controllo di varie velocità - Rilevamento CASE APERTO - Voltaggio: +12V, +5V, +3.3V, Vcore
Compatibilità SO	- Microsoft® Windows® 8 / 8 64 bit / 7 / 7 64 bit / Vista™ / Vista™ 64 bit / XP / XP 64 bit
Certificazioni	- FCC, CE, WHQL - Predisposto ErP/EuP (è necessaria l'alimentazione predisposta per il sistema ErP/EuP)

* Per ulteriori informazioni, prego visitare il nostro sito internet: <http://www.asrock.com>

1.3 Setup dei Jumpers

L'illustrazione mostra come sono settati i jumper. Quando il ponticello è posizionato sui pin, il jumper è "CORTOCIRCUITATO". Se sui pin non ci sono ponticelli, il jumper è "APERTO". L'illustrazione mostra un jumper a 3 pin in cui il pin1 e il pin2 sono "CORTOCIRCUITATI" quando il ponticello è posizionato su questi pin.



Jumper	Settaggio del Jumper
--------	----------------------

Resetare la CMOS		
------------------	--	--

(CLRCMOS1) (vedi p.2 item 6)		
---------------------------------	--	--

1_2	2_3
Impostazione predefinita	Azzeramen- to CMOS

Nota: CLRCMOS1 permette di azzerare i dati nella CMOS. Per cancellare e ripristinare i parametri del sistema sulla configurazione iniziale, spegnere il computer e scollegare il cavo d'alimentazione dalla presa di corrente. Attendere 15 secondi, poi usare un cappuccio jumper per cortocircuitare il pin 2 ed il pin 3 su CLRCMOS1 per 5 secondi. Tuttavia, si consiglia di non cancellare la CMOS subito dopo avere aggiornato il BIOS. Se si deve azzerare la CMOS quando si è completato l'aggiornamento del BIOS, è necessario per prima cosa avviare il sistema e poi spegnerlo prima di eseguire l'azzeramento della CMOS. Notare che password, data, ore, profilo utente predefinito, 1394 GUID e indirizzo MAC saranno cancellati solo se è rimossa la batteria della CMOS.



Se si cancella la CMOS, potrebbe essere rilevata l'apertura del case. Regolare l'opzione del BIOS "Clear Status" (Cancella stato) per cancellare la registrazione del precedente stato d'intrusione chassis.

1.4 Collettori e Connettori su Scheda



I collettori ed i connettori su scheda NON sono dei jumper. NON installare cappucci per jumper su questi collettori e connettori. L'installazione di cappucci per jumper su questi collettori e connettori provocherà danni permanenti alla scheda madre!

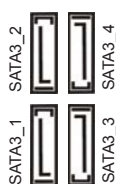
Connettori Serial ATA3

(SATA3_1: vedi p.2 Nr. 12)

(SATA3_2: vedi p.2 Nr. 10)

(SATA3_3: vedi p.2 Nr. 11)

(SATA3_4: vedi p.2 Nr. 9)



Questi quattro connettori Serial ATA3 (SATA3) supportano cavi dati SATA per dispositivi di immagazzinamento interni.

ATA3 (SATA3) supportano cavi SATA per dispositivi di memoria interni. L'interfaccia SATA3 attuale permette velocità di trasferimento dati fino a 6.0 Gb/s.

Cavi dati Serial ATA (SATA)

(Opzionale)

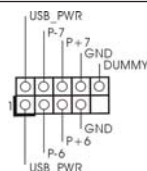


Una o altra estremità del cavo di dati SATA può essere collegata al disco rigido SATA / SATAII / SATA3 o al connettore di SATAII / SATA3 su questa cartolina base.

Collettore USB 2.0

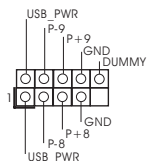
(9-pin USB6_7)

(vedi p.2 Nr. 20)



(9-pin USB8_9)

(vedi p.2 Nr. 19)

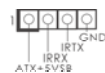


Oltre alle quattro porte USB 2.0 predefinite nel pannello I/O, la scheda madre dispone di due intestazioni USB 2.0. Ciascuna intestazione USB 2.0 supporta due porte USB 2.0.

Connettore modulo infrarosso consumer

(4-pin CIR1)

(vedi p.2 Nr. 18)

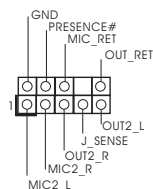


Questo connettore può essere utilizzato per collegare ricevitore remoto.

Connettore audio sul pannello frontale

(9-pin HD_AUDIO1)

(vedi p.2 Nr. 21)



È un'interfaccia per il cavo del pannello audio. Che consente connessione facile e controllo dei dispositivi audio.

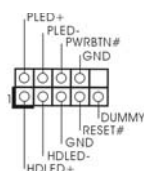


1. La caratteristica HDA (High Definition Audio) supporta il rilevamento dei connettori, però il pannello dei cavi sul telaio deve supportare la funzione HDA (High Definition Audio) per far sì che questa operi in modo corretto. Attenersi alle istruzioni del nostro manuale e del manuale del telaio per installare il sistema.
2. Se si utilizza un pannello audio AC'97, installarlo nell'intestazione audio del pannello anteriore, come indicato di seguito:
 - A. Collegare Mic_IN (MIC) a MIC2_L.
 - B. Collegare Audio_R (RIN) a OUT2_R e Audio_L (LIN) ad OUT2_L.
 - C. Collegare Ground (GND) a Ground (GND).
 - D. MIC_RET e OUT_RET sono solo per il pannello audio HD. Non è necessario collegarli per il pannello audio AC'97.
 - E. Per attivare il microfono frontale.
Sistema operativo Windows® XP / XP 64-bit:
Selezionare "Mixer". Selezionare "Recorder" (Registratore). Poi, fare clic su "FrontMic" (Microfono frontale).
Sistema operativo Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit:
Andare alla scheda "FrontMic" (Microfono frontale) del pannello di controllo Realtek. Regolare la voce "Recording Volume" (Volume registrazione).

Collettore pannello di sistema

(9-pin PANEL1)

(vedi p.2 Nr. 8)



Questo collettore accomoda diverse funzioni di sistema pannello frontale.



Collegare l'interruttore d'alimentazione, l'interruttore di ripristino, l'indicatore di stato del sistema del pannello frontale del telaio a questo header in base all'assegnazione dei pin definita di seguito. Determinare i pin positivi e negativi prima di collegare i cavi.

PWRBTN (interruttore d'alimentazione):

Va collegato all'interruttore d'alimentazione del pannello frontale del telaio. Usando l'interruttore d'alimentazione si può configurare il modo in cui si spegne il sistema.

RESET (interruttore di ripristino):

Va collegato all'interruttore di ripristino del pannello frontale del telaio. Premere l'interruttore di ripristino per riavviare il sistema se il computer si blocca e non riesce ad eseguire un normale riavvio.

PLED (LED alimentazione del sistema):

Va collegato all'indicatore di stato d'alimentazione del pannello frontale del telaio. Il LED è acceso quando il sistema è operativo. Il LED continua a lampeggiare quando il sistema è in stato di standby S1. Il LED è spento quando il sistema è in stato di sospensione /ibernazione S3/S4 oppure spento (S5).

HDLED (LED attività disco rigido):

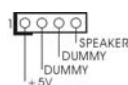
Va collegato al LED attività disco rigido del pannello frontale del telaio. Il LED è acceso quando disco rigido legge e scrive i dati.

Il design del pannello frontale può variare in base ai telai. Il modulo di un pannello frontale può consistere di: interruttore d'alimentazione, interruttore di ripristino, LED d'alimentazione, LED attività disco rigido, casse, eccetera. Quando si collega il modulo del pannello frontale a questo header, assicurarsi che l'assegnazione dei fili e dei pin sia fatta corrispondere in modo appropriato.

Collettore casse telaio

(4-pin SPEAKER1)

(vedi p.2 Nr. 15)



Collegare le casse del telaio a questo collettore.

Collettori Chassis ventola

(4-pin CHA_FAN1)

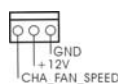
(vedi p.2 Nr. 2)



Collegare i cavi della ventola ai corrispondenti connettori facendo combaciare il cavo nero col pin di terra.

(3-pin CHA_FAN2)

(vedi p.2 Nr. 16)

**Connettore ventolina CPU**

(3-pin CPU_FAN1)

(vedi p.2 Nr. 1)

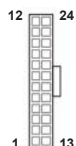


Collegare il cavo della ventolina CPU a questo connettore e far combaciare il filo nero al pin terra.

Connettore alimentazione ATX

(24-pin ATXPWR1)

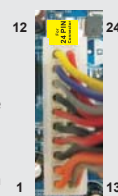
(vedi p.2 Nr. 7)



Collegare la sorgente d'alimentazione ATX a questo connettore.



Con questa scheda madre, c'è in dotazione un connettore elettrico ATX a 24 pin, ma può funzionare lo stesso se si adotta un alimentatore ATX a 20 pin. Per usare l'alimentatore ATX a 20 pin, collegare l'alimentatore con il Pin 1 e il Pin 13.

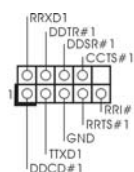


Installazione dell'alimentatore ATX a 20 pin

Collettore porta COM

(9-pin COM1)

(vedi p.2 Nr. 22)



Questo collettore porta COM è utilizzato per supportare il modulo porta COM.

Header di intrusione dello chassis

(2-pin C11)

(vedi p.2 Nr. 14)



Questa scheda madre supporta la funzione di rilevamento del CASE APERTO che rileva che il coperchio dello chassis è stato rimosso. Questa funzione richiede uno chassis con struttura di rilevamento di intrusione dello chassis.

2. Informazioni sul BIOS

La Flash Memory sulla scheda madre contiene le Setup Utility. Quando si avvia il computer, premi <F2> o <Del> durante il Power-On-Self-Test (POST) della Setup utility del BIOS; altrimenti, POST continua con i suoi test di routine. Per entrare il BIOS Setup dopo il POST, riavvia il sistema premendo <Ctl> + <Alt> + <Delete>, o premi il tasto di reset sullo chassis del sistema. Per informazioni più dettagliate circa il Setup del BIOS, fare riferimento al Manuale dell'Utente (PDF file) contenuto nel cd di supporto.

3. Software di supporto e informazioni su CD

Questa scheda madre supporta vari sistemi operativi Microsoft® Windows®: 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit. Il CD di supporto a corredo della scheda madre contiene i driver e utilità necessari a potenziare le caratteristiche della scheda. Inserire il CD di supporto nel lettore CD-ROM. Se la funzione "AUTORUN" è attivata nel computer, apparirà automaticamente il Menù principale. Se il Menù principale non appare automaticamente, posizionarsi sul file "ASSETUP.EXE" nel CESTINO del CD di supporto e cliccare due volte per visualizzare i menù.

1. Introducción

Gracias por su compra de ASRock **E35LM1 R2.0** placa madre, una placa de confianza producida bajo el control de calidad estricto y persistente. La placa madre provee realización excelente con un diseño robusto conforme al compromiso de calidad y resistencia de ASRock.

Esta Guía rápida de instalación contiene una introducción a la placa base y una guía de instalación paso a paso. Puede encontrar una información más detallada sobre la placa base en el manual de usuario incluido en el CD de soporte.



Porque las especificaciones de la placa madre y el software de BIOS podrían ser actualizados, el contenido de este manual puede ser cambiado sin aviso. En caso de cualquier modificación de este manual, la versión actualizada estará disponible en el website de ASRock sin previo aviso. También encontrará las listas de las últimas tarjetas VGA y CPU soportadas en la página web de ASRock.

Website de ASRock <http://www.asrock.com>

Si necesita asistencia técnica en relación con esta placa base, visite nuestra página web con el número de modelo específico de su placa. www.asrock.com/support/index.asp

1.1 Contenido de la caja

Placa base ASRock **E35LM1 R2.0** (Factor forma Mini-ITX)

Guía de instalación rápida de ASRock **E35LM1 R2.0**

CD de soporte de ASRock **E35LM1 R2.0**

Dos cables de datos Serial ATA (SATA) (Opcional)

Una protección I/O



ASRock le recuerda...

Para mejorar el rendimiento en Windows® 8 / 8 64 bits / 7 / 7 64 bits / Vista™ / Vista™ 64 bits, es recomendable establecer la opción del BIOS de la configuración de almacenamiento en el modo AHCI. Para obtener detalles sobre la configuración del BIOS, consulte el "Manual del usuario" que se encuentra en nuestro CD de soporte.

1.2 Especificación

Plataforma	- Factor forma Mini-ITX
Procesador	- AMD Zacate E-240 APU - Con soporte para tecnología Cool 'n' Quiet™ de AMD - UMI 2.5 GT/s
Chipset	- AMD A50M Chipset
Memoria	- 2 x DDR3 DIMM slots - Apoya DDR3 1333(OC)/1066/800 non-ECC, memoria de un-buffered - Máxima capacidad de la memoria del sistema: 16GB
Ranuras de Expansión	- 1 x ranura PCI Express 2.0 x16 (PCI-E1 @ modo x4)
VGA OnBoard	- Tarjeta gráfica integrada AMD Radeon HD 6310 - iGPU de clase DX11, Pixel Shader 5.0 - 512MB de Memoria máxima compartida - Admite D-Sub con una resolución máxima de 2560x1600 a 60 Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Soporta Wake-On-LAN - Admite detección de conexión de cable LAN - Compatible con Ethernet 802.3az de bajo consumo energético - Compatible con PXE
Entrada/Salida de Panel Trasero	I/O Panel - 1 x puerto de teclado/ratón PS/2 - 1 x puerto VGA - 4 x puertos USB 2.0 predeterminados - 1 x Puerto LAN RJ-45 con LED (LED de ACCIÓN/ENLACE y LED de VELOCIDAD) - Conexión de audio: Entrada de línea / Altavoz frontal / Micrófono
SATA3	- 4 x conectores SATA3 de 6,0 Gb/s con funciones NCQ, AHCI y de "Hot Plug" (conexión en caliente)
Conectores	- 4 x conexiones SATA3, admiten una velocidad de transferencia de datos de hasta 6,0Gb/s - 1 x Base de conexiones del módulo de infrarrojos para el consumidor - 1x En-tête de port COM

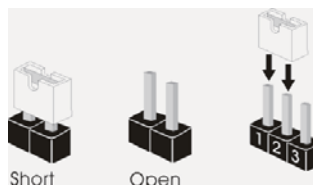
	- 1 x Conector de detección de intrusión en el chasis - 1 x Conector de ventilador de CPU (3-pin) - 2 x Conector de ventilador de chasis (1 x 4-pin, 1 x 3-pin) - 24-pin cabezal de alimentación ATX - Conector de audio de panel frontal - 2 x Cabezal USB 2.0 (admite 4 puertos USB 2.0 adicionales)
BIOS	- 32Mb BIOS legal UEFI AMI compatible con GUI - Soporta "Plug and Play" - ACPI 1.1 compliance wake up events - Soporta "jumper free" - Soporta SMBIOS 2.3.1 - Múltiple ajuste de DRAM, FCH, +1V, +1.8V Voltage
CD de soport	- Controladores, utilidades, software de antivirus (versión de prueba), Prueba de CyberLink MediaEspresso 6.5, Conjunto multimedia ASRock MAGIX - OEM, Google Chrome Browser y Toolbar
Monitor Hardware	- Sensibilidad a la temperatura del procesador - Sensibilidad a la temperatura de la placa madre - Taquímetros de los ventiladores del procesador y del CPU - Taquímetros de los ventiladores del procesador y del chasis - Ventilador silencioso del procesador (ajuste automático de la velocidad del ventilador del chasis en función de la temperatura del procesador) - Control de ajuste de la velocidad del ventilador de la CPU y el chasis - Control de APERTURA DE CARCASA - Monitor de Voltaje: +12V, +5V, +3.3V, Vcore
OS	- En conformidad con Microsoft® Windows® 8 / 8 64 bits / 7 / 7 64 bits / Vista™ / Vista™ 64 bits / XP / XP 64 bits
Certificaciones	- FCC, CE, WHQL - Cumple con la directiva ErP/EuP (se requiere una fuente de alimentación que cumpla con la directiva ErP/EuP)

* Para más información sobre los productos, por favor visite nuestro sitio web:

<http://www.asrock.com>

1.3 Setup de Jumpers

La ilustración muestra como los jumpers son configurados. Cuando haya un jumper-cap sobre los pins, se dice que el jumper está "Short". No habiendo jumper cap sobre los pins, el jumper está "Open". La ilustración muestra un jumper de 3 pins cuyo pin 1 y pin 2 están "Short".



Jumper	Setting
Limpiar CMOS (CLRCMOS1, jumper de 3 pins) (ver p.2, No. 6)	1_2 Valor predeterminado 2_3 Restablecimiento de la CMOS

Nota: CLRCMOS1 permite borrar los datos de la memoria CMOS. Para borrar los parámetros del sistema y restablecer la configuración predeterminada de los mismos, apague el equipo y desenchufe el cable de alimentación de la toma de corriente eléctrica. Deje que transcurran 15 segundos y, después, utilice un puente para cortocircuitar los contactos 2 y 3 de CLRCMOS1 durante 5 segundos. No borre la memoria CMOS justamente después de actualizar el BIOS. Si necesita borrar la memoria CMOS justamente después de actualizar el BIOS, debe iniciar primero el sistema y, a continuación, cerrarlo antes de llevar a cabo el borrado de dicha memoria. Tenga en cuenta que la contraseña, la fecha, la hora, el perfil predeterminado del usuario, el GUID 1394 y la dirección MAC solamente se borrará si la batería CMOS se quita.



Si borra la memoria CMOS, se puede detectar un caso de abertura. Ajuste la opción del BIOS "Clear Status" (Borrar estado) para borrar el registro del estado de intrusión anterior del chasis.

1.4 Cabezales y Conectores en Placas



Los conectores y cabezales en placa NO son puentes. NO coloque las cubiertas de los puentes sobre estos cabezales y conectores. El colocar cubiertas de puentes sobre los conectores y cabezales provocará un daño permanente en la placa base.

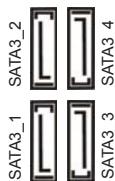
Conexiones de serie ATA3

(SATA3_1: vea p.2, N. 12)

(SATA3_2: vea p.2, N. 10)

(SATA3_3: vea p.2, N. 11)

(SATA3_4: vea p.2, N. 9)



Estas cuatro conexiones de serie ATA3 (SATA3) admiten cables SATA para dispositivos de almacenamiento internos. La interfaz SATAII / SATA3 actual permite una velocidad de transferencia de 6.0 Gb/s.

Cable de datos de serie ATA (SATA)

(Opcional)



Cualquier extremo del cable de los datos de SATA puede ser conectado con el disco duro de SATA / SATAII / SATA3 o el conector de SATAII / SATA3 en esta placa base.

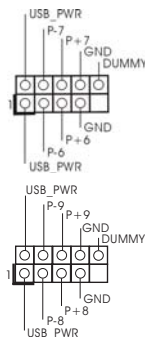
Cabezal USB 2.0

(9-pin USB6_7)

(vea p.2, N. 20)

(9-pin USB8_9)

(vea p.2, N. 19)



Además de cuatro puertos USB 2.0 predeterminados en el panel de E/S, hay dos bases de conexiones USB 2.0 en esta placa base. Cada una de estas bases de conexiones admite dos puertos USB 2.0.

Base de conexiones del módulo de infrarrojos para el consumidor

(4-pin CIR1)

(vea p.2, N. 18)

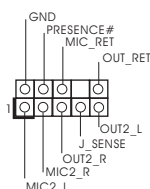


Esta base de conexiones se puede utilizar para conectar receptor remoto.

Conector de audio de panel frontal

(9-pin HD_AUDIO1)

(vea p.2, N. 21)



Este es una interface para cable de audio de panel frontal que permite conexión y control conveniente de aparatos de Audio.

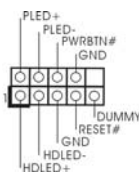


1. El Audio de Alta Definición soporta la detección de conector, pero el cable de panel en el chasis debe soportar HDA para operar correctamente. Por favor, siga las instrucciones en nuestro manual y en el manual de chasis para instalar su sistema.
2. Si utiliza el panel de sonido AC'97, instálelo en la cabecera de sonido del panel frontal de la siguiente manera:
 - A. Conecte Mic_IN (MIC) a MIC2_L.
 - B. Conecte Audio_R (RIN) a OUT2_R y Audio_L (LIN) en OUT2_L.
 - C. Conecte Ground (GND) a Ground (GND).
 - D. MIC_RET y OUT_RET son sólo para el panel de sonido HD. No necesitará conectarlos al panel de sonido AC'97.
 - E. Activación del micrófono frontal.En sistemas operativos Windows® XP / XP 64-bit:
Seleccione "Mixer" (Mezclador). Seleccione "Recorder" (Grabadora). A continuación, haga clic en "FrontMic" (Micrófono frontal).
En sistemas operativos Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit:
Acceda a la ficha "FrontMic" (Micrófono frontal) del panel de control Realtek. Ajuste la posición del control deslizante "Recording Volume" (Volumen de grabación).

Cabezal de panel de sistema

(9-pin PANEL1)

(vea p.2, N. 8)



Este cabezar acomoda varias dunciones de panel frontal de sistema.



Conecte el interruptor de alimentación, el interruptor de restablecimiento y el indicador de estado del sistema situados en el chasis con esta cabecera en función de las siguientes asignaciones de contacto. Preste atención a los contactos positivos y negativos antes de conectar los cables.

PWRBTN (interruptor de alimentación):

Conecte el interruptor de encendido situado en el panel frontal del chasis. Puede configurar la forma de apagar su sistema mediante el interruptor de alimentación.

RESTABLECER (interruptor de restablecimiento):

Conecte el interruptor de restablecimiento situado en el panel frontal del chasis. Pulse el interruptor de restablecimiento para restablecer el equipo si se bloquea y no se reinicia con normalidad.

PLED (LED de alimentación del sistema):

Conecte el indicador de estado de alimentación situado en el panel frontal del chasis. El LED se enciende cuando el sistema esté en funcionamiento. El LED parpadea cuando el sistema se encuentre en estado de suspensión S1. El LED se apaga cuando el sistema se encuentre en estado de suspensión S3/S4 o se apaga (S5).

HDLED (LED de actividad del disco duro):

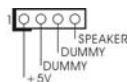
Conecte el LED de actividad de disco duro situado en el panel frontal del chasis. El LED se enciende cuando el disco duro esté leyendo o escribiendo datos.

Es posible que el diseño del panel frontal varíe en función del chasis. Un módulo del panel frontal consiste principalmente de interruptor de alimentación, interruptor de restablecimiento, LED de alimentación, LED de actividad del disco duro, altavoz, etc. Al conectar el módulo del panel frontal del chasis a esta cabecera, asegúrese de que las asignaciones de cables y las asignaciones de contactos coincidan correctamente.

Cabezal del altavoz del chasis

(4-pin SPEAKER1)

(vea p.2, N. 15)



Conecte el altavoz del chasis a su cabezal.

Conectores de ventilador de chasis

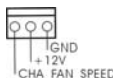
(4-pin CHA_FAN1)

(vea p.2, N. 2)



(3-pin CHA_FAN2)

(vea p.2, N. 16)



Por favor, conecte los cables del ventilador a los conectores de ventilador, haciendo coincidir el cable negro con la patilla de masa.

Conector del ventilador de la CPU

(3-pin CPU_FAN1)

(vea p.2, N. 1)

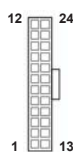


Conecte el cable del ventilador de la CPU a este conector y haga coincidir el cable negro con el conector de tierra.

Cabezal de alimentación ATX

(24-pin ATXPWR1)

(vea p.2, N. 7)

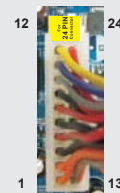


Conecte la fuente de alimentación ATX a su cabezal.



A pesar de que esta placa base incluye un conector de alimentación ATX de 24 pines, ésta puede funcionar incluso si utiliza una fuente de alimentación ATX de 20 pines tradicional. Para usar una fuente de alimentación ATX de 20 pines, por favor, conecte su fuente de alimentación usando los Pines 1 y 13.

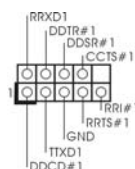
Instalación de una Fuente de Alimentación ATX de 20 Pines



Cabezal del puerto COM

(9-pin COM1)

(vea p.2, N. 22)



Este cabezal del puerto COM se utiliza para admitir un módulo de puerto COM.

Conector de detección de intrusión en el chasis

(2-pin CI1)

(vea p.2, N. 14)



Esta placa base admite la función de control de APERTURA DE CARCASA, que permite detectar si se ha retirado la cubierta del chasis. Dicha función requiere un chasis con diseño específico para la detección de intrusión en el chasis.

2. BIOS Información

El Flash Memory de la placa madre deposita SETUP Utility. Durante el Power-Up (POST) apriete <F2> o <Del> para entrar en la BIOS. Si usted no oprime ninguna tecla, el POST continúa con sus rutinas de prueba. Si usted desea entrar en la BIOS después del POST, por favor reinicie el sistema apretando <Ctl> + <Alt> + <Borrar>, o apretando el botón Reset en el panel del ordenador. Para información detallada sobre como configurar la BIOS, por favor refiérase al Manual del Usuario (archivo PDF) contenido en el CD.

3. Información de Software Support CD

Esta placa-base soporta diversos tipos de sistema operativo Windows®: 8 / 8 64 bits / 7 / 7 64 bits / Vista™ / Vista™ 64 bits / XP / XP 64 bits. El CD de instalación que acompaña la placa-base trae todos los drivers y programas utilitarios para instalar y configurar la placa-base. Para iniciar la instalación, ponga el CD en el lector de CD y se desplegará el Menú Principal automáticamente si «AUTORUN» está habilitado en su computadora. Si el Menú Principal no aparece automáticamente, localice y doble-pulse en el archivo "ASSETUP.EXE" para iniciar la instalación.

1. Введение

Благодарим вас за покупку материнской платы ASRock **E35LM1 R2.0** надежной материнской платы, изготовленной в соответствии с постоянно предъявляемыми ASRock жесткими требованиями к качеству. Она обеспечивает превосходную производительность и отличается отличной конструкцией, которые отражают приверженность ASRock качеству и долговечности.

Данное руководство по быстрой установке включает вводную информацию о материнской плате и пошаговые инструкции по ее установке. Более подробные сведения о плате можно найти в руководстве пользователя на компакт-диске поддержки.



Спецификации материнской платы и программное обеспечение BIOS иногда изменяются, поэтому содержание этого руководства может обновляться без уведомления. В случае любых модификаций руководства его новая версия будет размещена на веб-сайте ASRock без специального уведомления. Кроме того, самые свежие списки поддерживаемых модулей памяти и процессоров можно найти на сайте ASRock.

Адрес веб-сайта ASRock <http://www.asrock.com>

При необходимости технической поддержки по вопросам данной материнской платы посетите наш веб-сайт для получения информации об используемой модели.

www.asrock.com/support/index.asp

1.1 Комплектность

Материнская плата ASRock **E35LM1 R2.0** (форм-фактор Mini-ITX)

Руководство по быстрой установке ASRock **E35LM1 R2.0**

Компакт-диск поддержки ASRock **E35LM1 R2.0**

2 x кабель данных Serial ATA (SATA) (дополнительно)

1 x I/O Щит Группы ввода / вывода



ASRock напоминает...

Для обеспечения максимальной производительности ОС Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit рекомендуется в BIOS выбрать для параметра Storage Configuration (Конфигурация запоминающего устройства) режим AHCI. Подробные сведения о настройке BIOS см. в руководстве пользователя на прилагаемом компакт-диске.

1.2 Спецификации

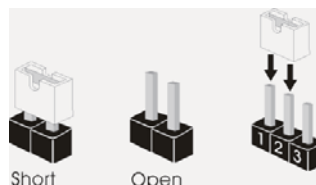
Платформа	- форм-фактор Mini-ITX
Процессор	- AMD Zacate E-240 APU - Поддержка технологии AMD Cool 'n' Quiet™ - UMI 2.5 GT/s
Набор микросхем	- AMD A50M Набор микросхем
Память	- 2 x гнезда DDR3 DIMM - Поддержите DDR3 1333(OC)/1066/800 не- ECC, безбуферная память - Максимальный объем системной памяти: 16 ГБ
Гнезда расширения	- 1 x PCI Express 2.0 x16 (PCI-E1 в режиме x4)
Графика	- Встроенный видеоадаптер AMD Radeon HD 6310 - Поддержка DirectX 11, Pixel Shader 5.0 - Макс. объем разделяемой памяти 512Мб - Поддержка D-Sub с максимальным разрешением до 2560x1600 @ 60 Гц
Аудиосистема	- 5.1 CH HD Аудио (Кодер-декодер Аудио Realtek ALC662)
ЛВС	- PCI-E x 1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - поддержка Wake-On-LAN - Поддержка определения кабеля ЛВС - Поддержка энергосберегающего интерфейса Ethernet 802.3az - Поддержка PXE
Разъемы ввода-вывода на задней панели	I/O Panel - 1 x порт клавиатуры/мыши PS/2 - 1 x VGA порт - 4 x порта USB 2.0 на задней панели в стандартной конфигурации - Разъем 1 x RJ-45 LAN с светодиодным индикатором (индикатор ACT/LINK и индикатор SPEED) - Соединитель звуковой подсистемы: линейный вход / передняя колонка / микрофон
SATA3	- 4 x порта SATA3 со скоростью передачи данных 6,0 Гбит/с, с аппаратной поддержкой функций NCQ, AHCI и «горячего подключения»
Колодки и плате	- 4 x разъема SATA3 6,0 Гбит/с - 1 x Датчик пользовательского инфракрасного модуля - 1 x Колодка COM - 1 x разъем датчика открытой крышки - 1 x соединитель CPU FAN (3-контактный) - 2 x соединитель Chassis FAN (1 x 4-контактный, 1 x 3-контактный) - 24-контактный Колодка питания ATX - Аудиоразъем передней панели - 2 x Колодка USB 2.0 (одна колодка для поддержки 4 дополнительных портов USB 2.0)

BIOS	- 32Mb AMI UEFI Legal BIOS с поддержкой графического интерфейса поль зователя - поддержка "Plug and Play" - ACPI 1.1, включение по событиям - поддержка режима настройки без перемычек - поддержка SMBIOS 2.3.1 - центральный Мультирегулирование Напряжения DRAM, FCH, +1V, +1.8V
Компакт- диск поддержки	- Драйверы, служебные программы, антивирусное программное обеспечение (пробная версия), Пробная версия программы CyberLink MediaEspresso 6.5, ASRock MAGIX Multimedia Suite - поставщик, Google Chrome Browser и Toolbar
Контроль оборудования	- Датчики температуры процессора - Датчики температуры корпуса - Тахометры вентиляторов CPU FAN - Тахометры вентиляторов Chassis FAN - Бесшумный вентилятор ЦП блока (возможность авто матической настройки скорости вентилятора системного блока в соответствии с температурой центрального процессора) - Мультиконтроль скорости вентилятора ЦП/Шасси - Определение открытой крышки - Контроль напряжения: +12V, +5V, +3.3V, Vcore
Операцион ные системы	- Совместимость с Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Поддержка 64-разрядной версии Vista™ / XP / XP 64-bit
Сертификаты	- FCC, CE, WHQL - Совместимость с ErP/EuP Ready (требуется блок питания совместимый с ErP/EuP)

* Для детальной информации продукта, пожалуйста посетите наш вебсайт:
<http://www.asrock.com>

1.3 Установка перемычек

Конфигурация перемычек иллюстрируется на рисунке. Когда перемычка надета на контакты, они называются “замкнутыми” (short). Если на контактах перемычки нет, то они называются “разомкнутыми” (open). На иллюстрации показана 3-контактная перемычка, у которой контакты 1 и 2 замкнуты.



Перемычка	Установка	Описание
Очистка CMOS (CLRCMOS1, 3-контактная перемычка) (см. стр. 2, п. 6)	1_2 Стандартные 2_3 Очистка CMOS	

Примечание. Контактная колодка CLRCMOS1 позволяет очистить данные CMOS. Для очистки данных и восстановления заводских системных параметров сначала выключите компьютер и отсоедините сетевую вилку кабеля питания от электророзетки. Выждите не менее 15 секунд и колпачковой перемычкой на 5 секунд перемкните штырьки 2 и 3 контактной колодки CLRCMOS1. Однако не производите очистку CMOS непосредственно после обновления BIOS. Если необходимо очистить CMOS сразу же после окончания обновления BIOS, то, перед очисткой CMOS, необходимо сначала выполнить загрузку системы, а затем завершить ее работу. Примите во внимание, что пароль, дата, время, профиль пользователя по умолчанию, идентификатор 1394 GUID и MAC-адрес будут очищены только тогда, когда будет извлечена из своего гнезда батарейка CMOS.



Очистка CMOS может вызвать срабатывание датчика открытой крышки. Измените опцию «Clear Status» в BIOS, чтобы очистить записи о предыдущих срабатываниях датчика.

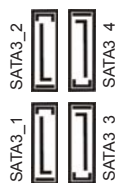
1.4 Колодки и разъемы на плате



Имеющиеся на плате колодки и разъемы НЕ ЯВЛЯЮТСЯ контактами для перемычек. НЕ УСТАНОВЛИВАЙТЕ перемычки на эти колодки и разъемы – это приведет к необратимому повреждению материнской платы!

Разъемы Serial ATA3

(SATA3_1, см. стр. 2, п. 12)
(SATA3_2, см. стр. 2, п. 10)
(SATA3_3, см. стр. 2, п. 11)
(SATA3_4, см. стр. 2, п. 9)



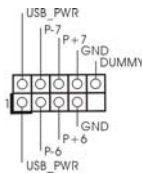
Четыре соединителя Serial ATA3 предназначены для подключения внутренних устройств хранения с использованием интерфейсных кабелей SATA3. В настоящее время интерфейс SATA допускает скорость передачи данных до 6,0 Гбит/с.

Информационный кабель Serial ATA (SATA)
(дополнительно)

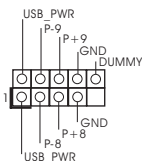


Информационный кабель интерфейса SATA / SATAII / SATA3 не является направленным. Любой из его соединителей может быть подключен либо к жесткому диску интерфейса SATAII / SATA3 либо к материнской плате.

Колодка USB 2.0
(9-контактный USB6_7)
(см. стр. 2, п. 20)



(9-контактный USB8_9)
(см. стр. 2, п. 19)



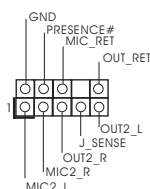
Помимо четыре стандартных портов USB 2.0 на панели ввода-вывода, на данной материнской плате предусмотрено два разъема USB 2.0. Каждый разъем USB 2.0 поддерживает два порта USB 2.0.

Датчик пользовательского инфракрасного модуля
(4-контактный CIR1)
(см. стр. 2, п. 18)



Датчик можно использовать для подключения дистанционный приемник.

Аудиоразъем передней панели
(9-контактный HD_AUDIO1)
(см. стр. 2, п.21)

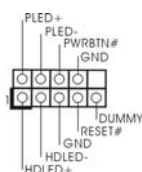


Этот интерфейс предназначен для присоединения аудиокабеля передней панели, обеспечивающего удобное подключение аудиоустройств и управление ими.



1. Система High Definition Audio поддерживает функцию автоматического обнаружения разъемов (Jack Sensing), однако для ее правильной работы кабель панели в корпусе должен поддерживать HDA. При сборке системы следуйте инструкциям, приведенным в нашем руководстве и руководстве пользователя для корпуса.
2. Если вы используете аудиопанель AC'97, подключите ее к колодке аудиоинтерфейса передней панели следующим образом:
 - A. Подключите выводы Mic_IN (MIC) к контактам MIC2_L.
 - B. Подключите выводы Audio_R (RIN) к контактам OUT2_R, а выводы Audio_L (LIN) к контактам OUT2_L.
 - C. Подключите выводы Ground (GND) к контактам Ground (GND).
 - D. Контакты MIC_RET и OUT_RET предназначены только для аудиопанели HD. При использовании аудиопанели AC'97 подключать их не нужно.
 - E. Процедура активации микрофона приведена ниже.
Для ОС Windows® XP / XP 64-бита:
Выберите «Mixer» (Микшер). Выберите «Recorder» (Устройство записи). Затем щелкните «FrontMic» (Передний микрофон).
Для ОС Windows® 8 / 8 64-бита / 7 / 7 64-бита / Vista™ / Vista™ 64-бита:
Перейдите к вкладке «FrontMic» (Передний микрофон) в панели управления Realtek. Отрегулируйте уровень «Recording Volume» (Громкость записи).

Колодка системной панели
(9-контактный PANEL1)
(см. стр. 2, п. 8)



Данная колодка обеспечивает работу нескольких функций передней панели системы.



Подключите к этому разъему кнопку питания, кнопку сброса и индикатор состояния системы на корпусе в соответствии с указанным ниже назначением контактов. При подключении кабелей необходимо соблюдать полярность положительных и отрицательных контактов.

PWRBTN (кнопка питания):

Подключите к этим контактам кнопку питания на передней панели корпуса. Способ выключения системы с помощью кнопки питания можно настроить.

RESET (кнопка сброса):

Подключите к этим контактам кнопку сброса на передней панели корпуса. Нажмите кнопку сброса для перезагрузки компьютера, если компьютер «завис» и нормальную перезагрузку выполнить не удастся.

PLED (индикатор питания системы):

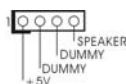
Подключите к этим контактам индикатор состояния питания на передней панели корпуса. Этот индикатор светится, когда система работает. Индикатор мигает, когда система находится в режиме ожидания S1. Этот индикатор не светится, когда система находится в режиме ожидания S3 или S4, либо выключена (S5).

HDLED (индикатор активности жесткого диска):

Подключите к этим контактам индикатор активности жесткого диска на передней панели корпуса. Этот индикатор светится, когда осуществляется считывание или запись данных на жестком диске.

Конструкция передней панели может различаться в зависимости от корпуса. Модуль передней панели в основном состоит из кнопки питания, кнопки сброса, индикатора питания, индикатора активности жесткого диска, динамика и т.п. При подключении к этому разъему модуля передней панели корпуса удостоверьтесь, что провода подключаются к соответствующим контактам.

Колодка динамика корпуса
(4-контактный SPEAKER1)
(см. стр. 2, п. 15)



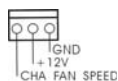
Подключите к этой колодке кабель от динамика на корпусе компьютера.

Chassis Fan-соединители
(4-контактный CHA_FAN1)
(см. стр. 2, п. 2)



Подключите кабели вентилятора к соединителям и присоедините черный шнур к штырю заземления.

(3-контактный CHA_FAN2)
(см. стр. 2, п. 16)

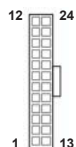


Разъем вентилятора процессора
(3-контактный CPU_FAN1)
(см. стр. 2, п. 1)



Подключите к этому разъему кабель вентилятора процессора так, чтобы черный провод соответствовал контакту земли.

Колодка питания ATX
(24-контактный ATXPWR1)
(см. стр. 2, п. 7)



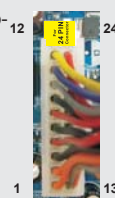
Подключите к этой колодке кабель питания ATX.

Русский

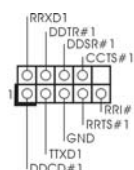


Несмотря на то, что эта материнская плата предусматривает 24-штыревой разъем питания ATX, работа будет продолжаться, даже если адаптируется традиционный 20-штыревой разъем питания ATX. Для использования 20-штыревого разъема питания ATX вставьте источник питания вместе со штекером 1 и штекером 13.

Установка 20-штыревого разъема питания ATX



Колodka COM-порта
(9-контактный COM1)
(см. стр. 2, п. 22)



Данная колodka COM-порта
позволяет подключить модуль
порта COM.

Датчик открытой крышки
(2-контактный Cl1)
(см. стр. 2, п. 14)



Эта материнская плата
поддерживает функцию
определения открытой крышки,
которая позволяет определить,
была ли снята крышка корпуса.
Функция требует поддержку со
стороны корпуса.

2. Информация о BIOS

Утилита настройки BIOS (BIOS Setup) хранится во флэш-памяти на материнской плате. Чтобы войти в программу настройки BIOS Setup, при запуске компьютера нажмите <F2> или <Del> во время самопроверки при включении питания (Power-On-Self-Test – POST). Если этого не сделать, то процедуры тестирования POST будут продолжаться обычным образом. Если вы захотите вызвать BIOS Setup уже после POST, перезапустите систему с помощью клавиш <Ctrl> + <Alt> + <Delete> или нажатия кнопки сброса на корпусе системы. Подробную информацию о программе BIOS Setup вы найдете в Руководстве пользователя (в формате PDF) на компакт-диске поддержки.

3. Информация о компакт-диске поддержки с программным обеспечением

Данная материнская плата поддерживает различные операционные системы Microsoft® Windows® : 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit. Поставляемый вместе с ней компакт-диск поддержки содержит необходимые драйверы и полезные утилиты, которые расширяют возможности материнской платы. Чтобы начать работу с компакт-диском поддержки, вставьте его в дисковод CD-ROM. Если в вашем компьютере включена функция автозапуска (AUTORUN), то на экране автоматически появится главное меню компакт-диска (Main Menu). Если этого не произошло, найдите в папке BIN на компакт-диске поддержки файл ASSETUP.EXE и дважды щелкните на нем, чтобы открыть меню.

1. Introdução

Gratos por comprar nossa placa-mãe **E35LM1 R2.0**, um produto confiável feito com ASRock um estrito controle de qualidade consistente. Com um excelente desempenho, essa placa é dotada de um projeto robusto que atende a ASRock de compromisso com a qualidade e durabilidade.

Este Guia de Instalação Rápida apresenta a placa-mãe e o guia de instalação passo a passo. Mais informações detalhadas sobre a placa-mãe podem ser encontradas no manual do usuário do CD de suporte.



Porque as especificações da placa mãe e o software de BIOS poderiam ser atualizados, o conteúdo deste manual pode ser cambiado sem aviso. Em caso de qualquer modificação deste manual, a versão atualizada estará disponível no website de ASRock sem prévio aviso. Pode também encontrar as listas das mais recentes placas VGA e das CPUs suportadas no site da web da ASRock.

Website de ASRock <http://www.asrock.com>

Se precisar de apoio técnico em relação a este placa-mãe, por favor visite o nosso sítio da internet para informação específica acerca do modelo que está a utilizar. www.asrock.com/support/index.asp

1.1 Este pacote contém

Placa-mãe ASRock **E35LM1 R2.0** (Formato Mini-ITX)

Guia de instalação rápida da ASRock **E35LM1 R2.0**

CD de suporte da placa ASRock **E35LM1 R2.0**

Dois cabo de dados ATA Serial (SATA) (Opcional)

Uma proteção I/O



A ASRock recorda-lhe...

Para obter melhor desempenho em Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit, recomendamos que defina a opção Configuração de Armazenamento na BIOS para o modo AHCI. Para mais detalhes acerca da configuração da BIOS consulte o "Manual de utilizador" no nosso CD de suporte.

1.2 Especificações

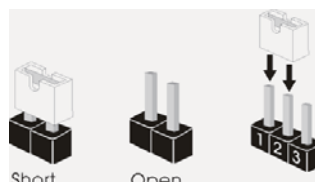
Plataforma	- Formato Mini-ITX
CPU	- AMD Zacate E-240 APU - Suporta a tecnologia AMD Cool 'n' Quiet™ - UMI 2.5 GT/s
Chipsets	- AMD A50M Chipsets
Memória	- 2 x slots de DDR3 DIMM - Suporte para memória não intermédia DDR3 1333(OC)/1066/800, não ECC - Capacidade máxima de memória do sistema: 16GB
Slots de Expansão	- 1 x slot de PCI Express 2.0 x16 (modo PCIE1 @ x4)
VGA integrado	- Placa gráfica AMD Radeon HD 6310 integrada - DX11 class iGPU, Pixel Shader 5.0 - Memória partilhada máxima 512MB - Suporta D-Sub com resolução máxima até 2560x1600 @ 60Hz
Áudio	- Áudio HD de 5.1 canais (Codec de áudio Realtek ALC662)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Suporta Wake-On-LAN - Suporta detecção de cabo LAN - Suporta IEEE 802.3az - Suporta PXE
Entrada/Saída pelo painel traseiro	I/O Panel - 1 x porta para teclado/mouse PS/2 - 1 x porta VGA - 4 x portas USB 2.0 padrão - 1 x porta LAN RJ-45 com LED (LED ACT/LIG e LED VELOCIDADE) - HD Áudio Jack: Entrada de linha / Altifalante frontal / Microfone
SATA3	- 4 x conectores SATA3, suporte a taxa de transferência de dados de até 6,0 Gb/s, suporte NCQ, AHCI e "conexão a quente"
Conectores	- 4 x conectores SATA3, suporte a taxa de transferência de dados de até 6,0 Gb/s - 1 x Conector do módulo de consumidor infravermelho - 1 x Conector da porta COM - 1 x Conector de intrusão no chassis

	- 1 x Conector do ventilador da CPU (3 pinos) - 2 x Conector do ventilador da chassis (1 x 4 pinos, 1 x 3 pinos) - Conector de força do ATX de 24 pinos - Conector Áudio do painel frontal - 2 x cabezal USB 2.0 (suportar 4 portas USB 2.0 adicionais)
BIOS	- 32Mb BIOS UEFI oficial da AMI com suporte para GUI - Suporta dispositivos "Plug and Play" - ACPI 1.1 atendendo a eventos de "wake up" - Suporta dispositivos sem jumper - Suporte para SMBIOS 2.3.1 - DRAM, FCH, +1V, +1.8V Voltage Multi-adjustment
CD de suporte	- Controladores, utilitários, software antivírus (Experimentacao Versao), CyberLink MediaEspresso 6.5 versão de demonstração, ASRock MAGIX Multimedia Suite - OEM, Navegador Google Chrome e Barra de Ferramentas
Monitor do HW	- Sensores de temperature do procesador - Medição de temperatura da placa-mãe - Tacômetros de ventilador do Processador - Tacômetros de ventilador do chassis - Ventoinha da CPU silenciosa (Permitir velocidade Chassis Auto-Ajuste de temperatura da CPU) - Controlo de velocidade da ventoinha da CPU/Chassis - Detecção de ABERTURA da CAIXA - Monitoramento de voltagem : +12 V, +5 V, +3.3 V, Vcore
Sistema Operacional	- Microsoft® Windows® 8 / 8 de 64 bits / 7 / 7 de 64 bits / Vista™ / Vista™ de 64 bits / XP / XP de 64 bits
Certificações	- FCC, CE, WHQL - "ErP/EuP Ready" (é necessária alimentação eléctrica "ErP/EuP Ready")

* Para informações mais detalhadas por favor visite o nosso sítio Web:
<http://www.asrock.com>

1.3 Configuração dos Jumpers

A ilustração mostra como os jumpers são configurados. Quando há uma capa de jumpers sobre os pinos, diz-se que o jumper está “curto”. Não havendo capa sobre os pinos, o jumper está “aberto”. A ilustração mostra um jumper de 3 pinos em que os pinos 1 e 2 estão “curtos” quando a capa de jumper estiver colocada sobre esses 2 pinos.



Jumper	Configuração
Restaurar CMOS (CLRCMOS1, jumper de 3 pinos) (veja a folha 2, No. 6)	1_2 Configuração-padrão 2_3 Limpar o CMOS

Nota: CLRCMOS1 permite-lhe limpar os dados no CMOS. Para limpar e repor os parâmetros do sistema para os valores predefinidos, encerre o computador e desligue a ficha da tomada. Depois de aguardar 15 segundos, utilize uma tampa de jumper para ligar o pino2 e o pino3 no CLRCMOS1 durante 5 segundos. No entanto, não limpe o CMOS logo após ter efectuado a actualização da BIOS. Se precisar de limpar o CMOS logo após ter terminado uma actualização da BIOS, deverá primeiro iniciar o sistema e voltar a encerrá-lo antes de efectuar a acção de limpeza do CMOS. Tenha em atenção que a palavra-chave, data, hora, perfil predefinido de utilizador, 1394 GUID e endereço MAC apenas serão limpos se a bateria do CMOS for retirada.



Se limpar o CMOS, poderá ser detectada a abertura da caixa. Ajuste a opção do BIOS “Clear Status” (Limpar estado) para limpar o registo anterior de estado de intrusão no chassis.

1.4 Conectores

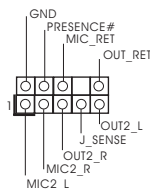


Os conectores NÃO SÃO jumpers. NÃO coloque capas de jumper sobre estes conectores. A colocação de pontos de jumper sobre os conectores causará danos irreversíveis à placa-mãe.

Conector	Figura	Descrição
Conectores ATA3 Serial (SATA3_1: veja a folha 2, No. 12) (SATA3_2: veja a folha 2, No. 10) (SATA3_3: veja a folha 2, No. 11) (SATA3_4: veja a folha 2, No. 9)		Estes quatro conectores Serial ATA3 (SATA3) suportam unidades de disco rígido SATA como dispositivos de armazenamento internos. A atual interface SATA3 permite uma taxa de transferência de dados de até 6.0 Gb/s.
Cabo de dados ATA (SATA) (opcional)		Tanto a saída do cabo de Serial dados SATA pode ser conectado ao disco rígido SATA / SATAII / SATA3 quanto o conector SATAII / SATA3 na placa mãe.
Cabeçal USB 2.0 (USB6_7 de 9 pinos) (veja a folha 2, No. 20) (USB8_9 de 9 pinos) (veja a folha 2, No. 19)		Além das quatro portas USB 2.0 por defeito no painel de entrada/saída, há duas ligações USB 2.0 nesta placa-mãe. Cada ligação USB 2.0 pode suportar duas portas USB 2.0.
Conector do módulo de infravermelhos (CIR1 de 4 pinos) (veja a folha 2, No. 18)		Este conector pode ser utilizado para ligar o receptor do controlo remoto.

Conector Áudio do painel frontal

(HD_AUDIO1 de 9 pinos)
(veja a folha 2, No. 21)



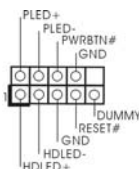
Esta é uma interface para o cabo de áudio no painel frontal, que permite uma conexão e controle convenientes dos dispositivos de áudio.



1. Áudio de elevada definição que suporta a sensibilidade da tomada, mas o fio do painel existente no chassis tem de suportar HDA para funcionar correctamente. Siga s instruções que aparecem no manual e no manual do chassis para instalar o sistema.
2. Se utilizar o painel de áudio AC'97, instale-o no cabeçalho de áudio do painel frontal, como a figura abaixo mostra:
 - A. Ligue o Mic_IN (MIC) ao MIC2_L.
 - B. Ligue o Audio_R (RIN) ao OUT2_R e o Audio_L (LIN) ao OUT2_L.
 - C. Ligue o Ground (GND) ao Ground (GND).
 - D. MIC_RET e OUT_RET são apenas para o painel de áudio HD. Não necessita de os ligar para o painel de áudio AC'97.
 - E. Para activar o microfone frontal.
Para os Sistemas Operativos Windows® XP / XP 64 bits:
Selecione "Misturador". Selecione "Gravador". Depois clique em "Microfone frontal".
Para os Sistemas Operativos Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit:
Aceda ao separador "Microfone frontal" no painel de Controlo Realtek. Ajuste o "Volume de gravação".

Conector do sistema no painel

(PANEL1 de 9 pinos)
(veja a folha 2, No. 8)



Este conector acomoda diversas funções de sistema no painel frontal.



Ligue o botão de alimentação, o botão de reposição e o indicador do estado do sistema no chassis a este conector de acordo com a descrição abaixo. Tenha em atenção os pinos positivos e negativos antes de ligar os cabos.

PWRBTN (Botão de alimentação):

Ligue ao botão de alimentação no painel frontal do chassis. Pode configurar a forma para desligar o seu sistema através do botão de alimentação.

RESET (Botão de reposição):

Ligue ao botão de reposição no painel frontal do chassis. Prima o botão de reposição para reiniciar o computador caso este bloqueie e não seja possível reiniciar normalmente.

PLED (LED de alimentação do sistema):

Ligue ao indicador do estado da alimentação no painel frontal do chassis. O LED ficará acesso quando o sistema estiver em funcionamento. O LED ficará intermitente quando o sistema estiver no estado de suspensão S1. O LED ficará desligado quando o sistema estiver nos estados de suspensão S3/S4 ou desligado (S5).

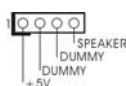
HDLED (LED de actividade do disco rígido):

Ligue ao LED de actividade do disco rígido no painel frontal do chassis. O LED ficará acesso quando o disco rígido estiver a ler ou a escrever dados.

O design do painel frontal poderá variar dependendo do chassis. Um módulo de painel frontal consiste principalmente em um botão de alimentação, um botão de reposição, um LED de alimentação, um LED de actividade do disco rígido, um altifalante, etc. Ao ligar o seu módulo de painel frontal do chassis a este conector, certifique-se que os fios e os pinos têm uma correspondência exacta.

Conector do alto-falante do chassis

(SPEAKER1 de 4 pinos)
(veja a folha 2, No. 15)



Ligue o alto-falante do chassis neste conector.

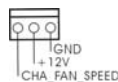
Conector do ventilador do chassis

(CHA_FAN1 de 4 pinos)
(veja a folha 2, No. 2)



Ligue o cabo do ventilador neste conector, coincidindo o fio preto com o pino de aterramento.

(CHA_FAN2 de 3 pinos)
(veja a folha 2, No. 16)


Conector do ventilador da CPU

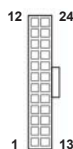
(CPU_FAN1 de 3 pinos)
(veja a folha 2, No. 1)



Ligue o cabo do ventilador da CPU, coincidindo o fio preto com o pino de aterramento.

Conector de força do ATX

(ATXPWR1 de 24 pinos)
(veja a folha 2, No. 7)



Ligue a fonte de alimentação ATX neste conector.



Embora esta placa-mãe providencie um conector de energia ATX de 24 pinos, pode apesar disso funcionar com a adaptação de uma fonte de energia tradicional de 20 pinos. Para usar a fonte de alimentação de 20 pinos, por favor ligue a sua fonte de alimentação com o Pino 1 e o Pino 13.

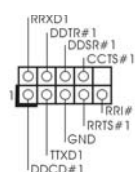
Instalação da Fonte de alimentação ATX de 20 Pinos



Conector da porta COM

(COM1 de 9 pinos)

(veja a folha 2, No. 22)



Este conector é usado para suportar um módulo de porta COM.

Conector de intrusão no chassis

(CI1 de 2 pinos)

(veja a folha 2, No. 14)



Esta placa principal suporta a função de detecção de ABERTURA da CAIXA que detecta se a tampa do chassis foi removida. Esta função requer um chassis com design de detecção de intrusão.

2. Informações da BIOS

A Memória Flash da placa-mãe armazena o utilitário de configuração da BIOS.

Quando você ligar o computador, pressione < F2 > durante a inicialização (POST) para entrar nas configurações da BIOS; caso contrário o POST continua com suas rotinas de teste. Caso você queira entrar nas configurações da BIOS após o POST, reinicie o sistema pressionando <Ctrl> + <Alt> + <Del>, ou pressionando a tecla de reset no gabinete. Também se pode reinicializar desligando a máquina e ligando-a novamente. Para informações mais detalhadas sobre a configuração da BIOS, consulte o manual do usuário (em pdf) contido no CD de instalação.

3. Informações do CD de Suporte

Esta placa Mãe suporta vários sistemas operacionais: Microsoft® Windows®: 8 / 8 de 64 bits / 7 / 7 de 64 bits / Vista™ / Vista™ de 64 bits / XP / XP de 64 bits. O CD de instalação que acompanha a placa Mãe contém: drivers e utilitários necessários para um melhor desempenho da placa Mãe. Para começar a usar o CD de instalação, introduza o CD na leitora de CD-ROM do computador. Automaticamente iniciará o menu principal, caso o "AUTORUN" esteja ativado. Se o menu principal não aparecer automaticamente, explore o CD e execute o "ASSETUP.EXE" localizado na pasta "BIN".

1. Giriş

ASRock'ın kesintisiz titiz kalite denetimi altında üretilen güvenilir bir anakart olan ASRock **E35LM1 R2.0** anakartını satın aldığınız için teşekkür ederiz. ASRock'ın kalite ve dayanıklılık konusundaki kararlılığına uygun güçlü tasarımıyla mükemmel bir performans sunar.

Bu Hızlı Takma Kılavuzu anakarta giriş ve adım adım takma kılavuzu içerir. Anakart hakkında daha ayrıntılı bilgiyi Destek CD'sinde sunulan kullanıcı kılavuzunda bulabilirsiniz.



Anakart özellikleri ve BIOS yazılımı güncelleştirilebileceğinden bu kılavuzun içeriği önceden haber verilmeksizin değişebilir. Bu belgede değişiklik yapılması durumun -da, güncelleştirilmiş sürüm ayrıca haber verilmeksizin ASRock web sitesinde sunulur. En son VGA kartlarını ve CPU destek listelerini de ASRock web sitesinde bulabilirsiniz. ASRock web sitesi <http://www.asrock.com>

Bu anakartla ilgili teknik desteğe ihtiyacınız olursa, kullandığınız modele özel bilgiler için lütfen web sitemizi ziyaret edin.
www.asrock.com/support/index.asp

1.1 Paket İçindekiler

ASRock **E35LM1 R2.0** Anakart (Mini-ITX Form Faktörü)
ASRock **E35LM1 R2.0** Hızlı Takma Kılavuzu
ASRock **E35LM1 R2.0** Destek CD'si
2 x Seri ATA (SATA) Veri Kablosu (İsteğe Bağlı)
1 x G/Ç Panel Kalkanı



ASRock Size Şunu Hatırlatır...

Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit ile daha iyi performans elde etmek için, Depolama Konfigürasyonundaki BIOS seçeneğini AHCI moduna ayarlamanız tavsiye edilir. BIOS ayarı için, ayrıntıları öğrenmek üzere lütfen destek CD'mizdeki "Kullanıcı Kılavuzu"na bakın.

1.2 Özellikler

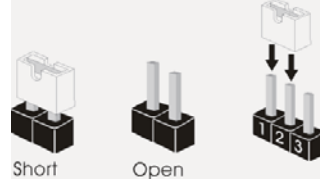
Platform	- Mini-ITX Form Faktörü
CPU	- AMD Zacate E-240 APU - AMD'nin Cool 'n' Quiet™ Teknolojisini Destekler - UMI 2.5 GT/s
Yonga seti	- AMD A50M Yonga seti
Bellek	- 2 x DDR3 DIMM yuva - DDR3 1333(OC)/1066/800 ECC olmayan, ara belleksiz bellek - Sistem belleğinin maks. kapasitesi: 16 GB
Genişletme Yuvası	- 1 x PCI Express 2.0 x16 yuva (PCIE1 @ x4 modu)
Grafikler	- Entegre AMD Radeon HD 6310 grafik kartı - DX11 sınıfı iGPU, Pixel Shader 5.0 - Maks. paylaşılan bellek 512 MB - 60Hz'de 2560x1600'ya kadar maks. çözünürlükle D-Sub'a destekler
Ses	- 5,1 Kanal HD Ses (Realtek ALC662 Ses Codec'i)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/sn - Realtek RTL8111E - LAN'da Uyan özelliğini destekler - LAN Kablo Algılama'yı destekler - Enerji Verimli Ethernet 802.3az desteği - PXE'yi destekler
Arka Panel G/3	G/3 Paneli - 1 x PS/2 Klavye/Fare Portu - 1 x VGA Portu - 4 x Kullanıcı Hazır USB 2.0 Portu - 1 x RJ-45 LAN Portu, LED'li (AKT/LAN LED'i ve HIZ LED'i) - HD Ses Jakı: Hat Girişi / Ön Hoparlör / Mikrofon
SATA3	- 4 x SATA3 6,0Gb/sn, donanım NCQ, AHCI ve "Sistem Açıkken Bileşen Takma" işlevlerini
Konektör	- 4 x SATA3 6.0 Gb/sn konektör - 1 x Kullanıcı Kızılötesi Modül Bağlantısı - 1 x COM portu fişi - 1 x Kasaya Yetkisiz Erişim fişi - 1 x Conector do ventilador da CPU (3 pinos) - 2 x Conector do ventilador da chassis (1 x 4 pinos, 1 x 3 pinos) - 24 pin ATX güç konektörü - Ön panel ses konektörü - 2 x USB 2.0 fiş (4 USB 2.0 portu destekler)

BIOS Özelliği	- 32 Mb GUI destekli AMI UEFI Geçerli BIOS - "Tak Çalıştır"ı destekler - ACPI 1.1 Uyumlu Uyandırma Olayları - Jumpersız ayarlamayı destekler - AMBIOS 2.3.1 Desteği - DRAM, FCH, +1V, +1.8V Voltaj Çoklu ayarı
Destek CD'si	- Sürücüler, Yardımcı Programlar, AntiVirüs Yazılımı (Deneme Sürümü), CyberLink MediaEspresso 6.5 Deneme Sürümü, ASRock MAGIX Multimedya Seti - OEM, Google Chrome Browser ve Toolbar
Donanım Monitör	- CPU Sıcaklık Duyarlılığı - Kasa Sıcaklık Duyarlılığı - CPU Fan Takometresi - Kasa Fan Takometresi - İşlemci Sessiz Fanı (Kasa Fan Hızı'nın İşlemci sıcaklığı ile Otomatik Ayar'ına izin verir) - CPU/Kasa Fan Çoklu-Hız Kontrolü - KASA AÇIK algılaması - Voltaj İzleme: +12V, +5V, +3,3V, CPU Vcore
İS	- Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit uyumlu
Sertifikalar	- FCC, CE, WHQL - ErP/EuP Hazır (ErP/EuP hazır güç kaynağı gerekli)

* Ayrıntılı ürün bilgileri için lütfen web sitemizi ziyaret edin: <http://www.asrock.com>

1.3 Jumper'ların Ayarı

Şekilde jumper'ların nasıl ayarlandıkları gösterilmektedir. Jumper kapağı pinler üzerine yerleştirildiğinde jumper "Kapalı" dır. Jumper kapağı pinler üzerindeyken jumper "Açık" tır. Şekilde pin1 ve pin2'si "Kapalı" olan jumper kapağı bu 2 pine yerleştirilmiş 3-pinli jumper gösterilmektedir.



Jumper

Ayar

CMOS'u temizleme

(CLRCMOS1, 3-pinli jumper)

(bkz. s.2 No. 6)



Default



Clear CMOS

Not: CLRCMOS1, CMOS'daki verilerinizi temizlemenize olanak sağlar. Sistem parametrelerini temizlemek ve varsayılan ayara sıfırlamak için lütfen bilgisayarı kapatın ve güç kablosunun fişini güç kaynağından çekin. 15 saniye bekledikten sonra, pin2 ve pin3'ü CLRCMOS1'de 5 saniye kısaltmak için bir atlatıcı şapkası kullanın. Ancak, BIOS'u güncelledikten hemen sonra lütfen CMOS'u temizlemeyin. BIOS'u güncellemeyi tamamladığınızda CMOS'u temizlemeniz gerekirse, ilk olarak sistemi başlatmanız ve ardından CMOS temizleme işlemini gerçekleştirmeden önce kapatmanız gereklidir. Parola, tarih, saat, kullanıcı varsayılan profili, 1394 GUID ve MAC adresinin yalnızca CMOS pili çıkarıldığında temizleneceğini lütfen aklınızda bulundurunuz.



CMOS'u temizlerseniz, kasa açma algılanabilir. Lütfen "Temizleme Durumu" BIOS seçeneğini önceki kasaya yetkisiz erişim durumunun kaydı için ayarlayın.

1.4 Yerleşik Fişler ve Konektörler

Yerleşik fişler ve konektörler jumper DEĞİLDİR. Bu fişlerin ve konektörlerin üzerine jumper kapakları YERLEŞTİRMEYİN. Fişlerin ve konektörlerin üzerine jumper kapakları yerleştirmek anakartın kalıcı olarak zarar görmesine neden olabilir!

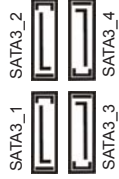
Seri ATA3 Konektörler

(SATA3_1: bkz. s.2, No. 12)

(SATA3_2: bkz. s.2, No. 10)

(SATA3_3: bkz. s.2, No. 11)

(SATA3_4: bkz. s.2, No. 9)



Bu dört Seri ATA3 (SATA3) konektör, dahili depolama cihazları için SATA veri kablolarını destekler. Geçerli SATA3 arayüzü 6,0 Gb/sn veri aktarım hızına izin verir.

Seri ATA (SATA)

Veri Kablosu

(İsteğe bağlı)

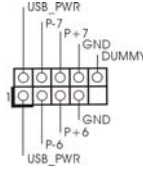


SATA veri kablosunu her iki ucu da SATA / SATAII / SATA3 sabit diskine veya anakarttaki SATAII / SATA3 konektörüne bağlanabilir.

USB 2.0 Fişleri

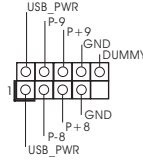
(9-pinli USB6_7)

(bkz. s.2 No. 20)



(9-pinli USB8_9)

(bkz. s.2 No. 19)



G/Ç panelindeki varsayılan dört USB 2.0 portundan başka, bu anakartta iki USB 2.0 fişi bulunur. Her USB 2.0 fişi iki USB 2.0 portunu destekler.

Kullanıcı Kızılötesi Modül Bağlantısı

(4-pinli CIR1)

(bkz. s.2 No. 18)

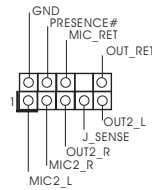


Bu fiş, uzaktan kumanda alıcısı destekler.

Ön Panel Ses Fişi

(9-pinli HD_SES1)

(bkz. s.2 No. 21)



Bu, panel ses kablosu için uygun bağlantı sağlayan ve ses cihazlarını kontrol etmeyi sağlayan bir arayüzdür.

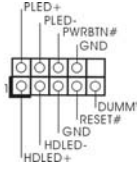
Türkçe



1. Yüksek Tanımlı Ses Jak Duyarlılığını destekler, ancak kasadaki panel kablosunun HDA'nın düzgün çalışmasını desteklemesi gerekir. Lütfen sisteminizi yüklemek için kılavuzumuzdaki ve kasa kılavuzundaki talimatları izleyin.
2. AC'97 ses paneli kullanıyorsanız, lütfen ön panel ses fişine aşağıdaki gibi takın:
 - A. Mic_IN'i (MIC) MIC2_L'ye bağlayın.
 - B. Audio_R'yi (RIN) OUT2_R'ye ve Audio_L'yi (LIN) OUT2_L'ye bağlayın.
 - C. Ground'u (GND) Ground'a (GND) bağlayın.
 - D. MIC_RET ve OUT_RET yalnızca HD ses paneli içindir. Bunları AC'97 ses paneli için bağlamanız gerekmez.
 - E. Ön mikrofonu etkinleştirmek için
Windows® XP / XP 64-bit İS için:
"Karıştırıcı"yı seçin. "Kaydedici"yi seçin. Sonra "Ön Mikrofon"u tıklatın.
Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit İS için:
Realtek Kontrol panelinde "Ön Mikrofon" Sekmesine gidin. "Kayıt Ses Seviyesi"ni ayarlayın.

Sistem Paneli Fişi

(9-pinli PANEL1)
(bkz. s.2 No. 8)



Bu fiş, birçok sistem ön paneli işlevini barındırır.



Kasa üzerindeki güç anahtarını, sıfırlama anahtarını ve sistem durumu göstergesini aşağıdaki pin atamalarına göre bu bağlantıya bağlayın. Kabloları bağlamadan önce pozitif ve negatif pinlere dikkat edin.

PWRBTN (Güç Anahtarı):

Kasa üzerindeki güç anahtarını ön panele bağlayın. Güç anahtarını kullanarak sisteminizi kapatma şeklinizi yapılandırabilirsiniz.

RESET (Sıfırlama Anahtarı):

Kasa üzerindeki sıfırlama anahtarını ön panele bağlayın. Bilgisayar donarsa veya normal bir yeniden başlatma gerçekleştirilemezse, bilgisayarı yeniden başlatmak için sıfırlama anahtarına basın.

PLED (Sistem Gücü LED'i):

Kasa üzerindeki güç durumu göstergesini ön panele bağlayın. Sistem çalışırken LED yanar. Sistem S1 uyku modunda iken LED yanıp sönmeye devam eder. Sistem S3/S4 uyku modunda veya kapalı (S5) iken LED söner.

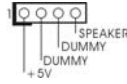
HDLED (Sabit Disk Çalışma LED'i):

Kasa üzerindeki sabit disk çalışma LED'ini ön panele bağlayın. Sabit disk veri okurken veya yazarken LED yanar.

Ön panel tasarımı kasaya göre değişiklik gösterebilir. Ön panel modülünde temel olarak güç anahtarı, sıfırlama anahtarı, güç LED'i, sabit disk çalışma LED'i, hoparlör vb. bulunur. Kasa ön panel modülünüzü bu bağlantıya bağlarken, kablo atamalarının ve pin atamalarının doğru biçimde eşleştirildiğinden emin olun.

Kasa Hoparlörü Fişi

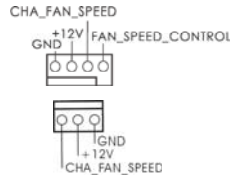
(4-pinli SPEAKER1)
(bkz. s.2 No. 15)



Lütfen kasa hoparlörünü bu fişe bağlayın.

Kasa Fan Konektörü

(4-pinli CHA_FAN1)
(bkz. s.2 No. 2)



(3-pinli CHA_FAN2)
(bkz. s.2 No. 16)

Lütfen kasa fan kablolarını fanına bu konektöre bağlayın ve siyah kabloyu toprak pinine bağlayın.

CPU Fan Konektörü

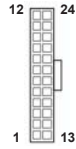
(3-pinli CPU_FAN1)
(bkz. s.2 No. 1)



Lütfen fan kablolarını CPU fanına bu konektöre bağlayın ve siyah kabloyu toprak pinine bağlayın.

ATX Güç Konektörü

(24-pinli ATXPWR1)
(bkz. s.2 No. 7)

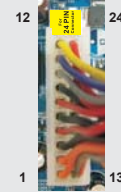


Lütfen bir ATX güç kaynağını bu konektöre bağlayın.



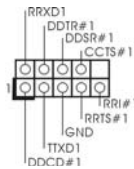
Bu anakart 24-pinli ATX güç konektörü sağlasa da geleneksel bir 20-pinli ATX güç kaynağı bağlarsanız da çalışabilir. 20-pinli ATX güç kaynağını kullanmak için, lütfen güç kaynağınızı Pin 1 ve Pin 13'le birlikte takın.

20-Pinli ATX Güç Kaynağını Takma



Seri port Fişi

(9-pinli COM1)
(bkz. s.2 No. 22)



Bu COM1 fişi bir seri port modülünü destekler.

Türkçe

Kasaya Yetkisiz Erişim Fişi
(2-pinli CI1)
(bkz. s.2 No. 14)



Bu anakart, kasa kapağının çıkarılıp çıkarılmadığını algılayan KASA AÇIK algılama özelliğini destekler. Bu özellik, kasaya yetkisiz erişim tasarımına sahip bir kasa gerektirir.

2. BIOS Bilgileri

Anakarttaki Flash Bellek BIOS Ayarları Yardımcı Programını içerir. Bilgisayarı başlattığınızda, lütfen Otomatik Güç Sınaması (POST) sırasında BIOS Ayarları yardımcı programına girmek için <F2> veya <Del> tuşuna basın; aksi halde, POST test rutinlerine devam eder. BIOS Ayarlarına POST'tan sonra girmek istiyorsanız, lütfen <Ctl> + <Alt> + <Delete> tuşlarına basarak veya sistem kasasındaki sıfırlama düğmesine basarak sistemi yeniden başlatın. BIOS Ayarları programı kullanıcı dostu olacak şekilde tasarlanmıştır. Çeşitli alt menüler arasında dolaşmanıza ve önceden belirlenen seçenekler arasından seçim yapmanıza izin veren menü tabanlı bir programdır. BIOS Ayarları hakkında ayrıntılı bilgi için, lütfen Destek CD'sinde bulunan Kullanıcı Kılavuzu'na (PDF dosyası) başvurun.

3. Yazılım Destek CD'si bilgileri

Bu anakart çeşitli Microsoft® Windows® işletim sistemleri destekler: 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit. Anakartla birlikte gelen Destek CD'si anakart özelliklerini genişleten gerekli sürücüler ve kullanışlı yardımcı programları içerir. Destek CD'sini kullanmaya başlamak için, CD'yi CDROM sürücünüze takın. Bilgisayarınızda "OTOMATİK KULLAN" özelliği etkinleştirilmişse, Ana Menüü otomatik olarak görüntüler. Ana Menü otomatik olarak görüntülenmezse, menüleri görüntülemek için Destek CD'sinin "BIN" klasöründeki "ASSETUP.EXE" dosyasını bulun ve çift tıklayın.

1. 主板简介

谢谢你采用了华擎 **E35LM1 R2.0** 主板，本主板由华擎严格制造，质量可靠，稳定性好，能够获得卓越的性能。本安装指南介绍了安装主板的步骤。更加详细的主板信息可参看驱动光盘的用户手册。



由于主板规格和 BIOS 软件将不断升级，本手册之相关内容变更恕不另行通知。请留意华擎网站上公布的升级版本。你也可以在华擎网站找到最新的显卡和 CPU 支持表。

华擎网址: <http://www.asrock.com>

如果您需要与此主板有关的技术支持，请参观我们的网站以了解您使用机种的规格信息。

www.asrock.com/support/index.asp

1.1 包装盒内物品

华擎 **E35LM1 R2.0** 主板 (Mini-ITX 规格)

华擎 **E35LM1 R2.0** 快速安装指南

华擎 **E35LM1 R2.0** 支持光盘

两条 Serial ATA (SATA) 数据线 (选配)

一块 I/O 挡板



ASRock提醒您...

为了在 Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit 系统中取得更好的性能，建议您在 BIOS 中将 Storage Configuration (存储配置) 选项设成 AHCI 模式。关于 BIOS 设置程序，请参见支持光盘中的 “User Manual” 以了解相详细信息。

1.2 主板规格

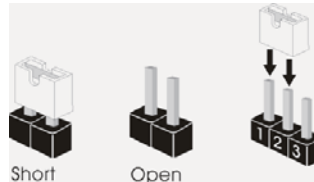
架构	- Mini-ITX 规格
处理器	- AMD Zacate E-240 APU - 支持 AMD Cool 'n' Quiet™ 冷静技术 - UMI 2.5 GT/s
芯片组	- AMD A50M 芯片组
系统内存	- 配备 2 个 DDR3 DIMM 插槽 - 支持 DDR3 1333(超频)/1066/800 non-ECC、un-buffered 内存 - 最高支持16GB 系统容量
扩展插槽	- 1 x PCI Express 2.0 x16 插槽 (PCIe1 @ x4 模式)
板载显卡	- 集成 AMD Radeon HD 6310 显卡 - DX11 级别 iGPU, Pixel Shader 5.0 技术 - 最大共享内存 512MB - 支持 D-Sub, 最高分辨率达 2560x1600 @ 60Hz
音效	- 5.1 声道高保真音频 (Realtek ALC662 音频编解码器)
板载 LAN 功能	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - 支持网路唤醒 (Wake-On-LAN) - 支持网路线侦测功能 - 支持 Energy Efficient Ethernet 802.3az - 支持 PXE
Rear Panel I/O (后面板输入 / 输出接口)	I/O 界面 - 1 个 PS/2 键盘 / 鼠标接口 - 1 个 VGA 接口 - 4 个可直接使用的 USB 2.0 接口 - 1 个 RJ-45 局域网接口与 LED 指示灯 (ACT/LINK LED 和 SPEED LED) - 高保真音频插孔: 音频输入 / 前置喇叭 / 麦克风
SATA3 连接头	- 4 x SATA3 6.0Gb/s 连接头, 支持 NCQ, AHCI 和热插拔功能 - 4 x SATA3 6.0Gb/s 连接头 - 1 x 红外线模块接头 - 1 x 串行接口 - 1 x 机箱开启警告功能接针 - 1 x CPU 风扇接头 (3 针) - 2 x 机箱风扇接头 (1 x 4 针, 1 x 3 针) - 24 针 ATX 电源接头 - 前置音频面板接头 - 2 x USB 2.0 接口 (可支持 4 个额外的 USB 2.0 接口)

BIOS	- 32Mb AMI UEFI Legal BIOS, 支持 GUI - 支持即插即用 (Plug and Play,PnP) - ACPI 1.1 电源管理 - 支持唤醒功能 - 支持 jumperfree 免跳线模式 - DRAM、FCH、+1V、+1.8V 电压多功能调节器
支持光盘	- 驱动程序、工具软件、杀毒软件 (试用版)、CyberLink MediaEspresso 6.5 试用版、华擎 MAGIX 多媒体套件 - OEM、Chrome 谷歌浏览器和工具栏
硬件监控器	- CPU 温度侦测 - 主板温度侦测 - CPU 风扇转速计 - 机箱风扇转速计 - CPU 静音风扇 (允许根据 CPU 温度自动调整机箱风扇速度) - CPU/ 机箱风扇多速控制 - 机箱开启侦测 - 电压范围: +12V, +5V, +3.3V, 核心电压
操作系统	- Microsoft® Windows® 8/8 64 位元 /7/7 64 位元 /Vista™/ Vista™ 64 位元 /XP/XP 64 位元适用于此主板
认证	- FCC, CE, WHQL - 支持 ErP/EuP (需要同时使用支持 ErP/EuP 的电源供应器)

* 请参阅华擎网站了解详细的产品信息: <http://www.asrock.com>

1.3 跳线设置

插图所示的就是设置跳线的方法。当跳线帽放置在针脚上时，这个跳线就是“短接”。如果针脚上没有放置跳线帽，这个跳线就是“开路”。插图显示了一个 3 针脚的跳线，当跳线帽放置在针脚 1 和针脚 2 之间时就是“短接”。



接脚	设定
清除 CMOS (CLR_CMOS1, 3 针脚跳线) (见第 2 页第 6 项)	1_2 默认设置 2_3 清除 CMOS

注意：CLR_CMOS1 允许您清除 CMOS 中的数据。如要清除并将系统参数恢复至默认设置，请关闭计算机，然后从电源插座上拔掉电源线。等待 15 秒后，使用跳线帽将 CLR_CMOS1 上的插针 2 和插针 3 短接 5 秒。但是，请勿在更新 BIOS 后立即清除 CMOS。如果需要在更新 BIOS 后立即清除 CMOS，必须在执行 CMOS 清除操作之前，先启动然后关闭系统。请注意，只有取出 CMOS 电池、密码、日期、时间、用户默认配置文件、1394 GUID 和 MAC 地址才会被清除。



如果您清除了 CMOS，机箱开启功能可能会被侦测到。请调节 BIOS 选项“Clear Status”（清除状态）清除之前机箱防盗侦测状态的纪录。

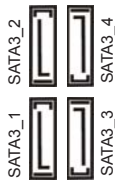


板载接头和接口不是跳线。切勿将跳线帽放置在这些接头和接口上。将跳线帽放置在接头和接口上将会导致主板的永久性损坏！

1.4 板载接头和接口

Serial ATA3 接口

(SATA3_1: 见第 2 页第 12 项)
(SATA3_2: 见第 2 页第 10 项)
(SATA3_3: 见第 2 页第 11 项)
(SATA3_4: 见第 2 页第 9 项)



这里有四组 Serial ATA3 (SATA3) 接口支持 Serial (SATA) 数据线作为内部储存设置。目前 SATA3 界面理论上可提供高达 6.0Gb/s 的数据传输速率。

Serial ATA (SATA) 数据线
(选配)

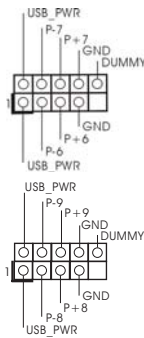


SATA 数据线的任意一端均可连接 SATA/SATAII/SATA3 硬盘或者主板上的 SATAII/SATA3 接口。

USB 2.0 扩展接头

(9 针 USB6_7)
(见第 2 页第 20 项)

(9 针 USB8_9)
(见第 2 页第 19 项)



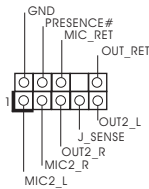
除了位于 I/O 面板的四个默认 USB 2.0 接口之外，这款主板有两组 USB 2.0 接针。这组 USB 2.0 接针可以支持两个 USB 2.0 接口。

消费类红外线模块接头
(4 针 CIR1)
(见第 2 页第 18 项)



此接口可以连接遥控接收器。

前置音频面板接头
(9 针 HD_AUDIO1)
(见第 2 页第 21 项)



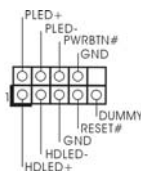
可以方便连接音频设备。



1. 高保真音频 (High Definition Audio, HDA) 支持智能音频接口检测功能 (Jack Sensing), 但是机箱面板的连线必须支持 HDA 才能正常使用。请按我们提供的手册和机箱手册上的使用说明安装您的系统。
2. 如果您使用 AC' 97 音频面板, 请按照下面的步骤将它安装到前面板音频接针:
 - A. 将 Mic_IN(MIC) 连接到 MIC2_L。
 - B. 将 Audio_R(RIN) 连接到 OUT2_R, 将 Audio_L(LIN) 连接到 OUT2_L。
 - C. 将 Ground(GND) 连接到 Ground(GND)。
 - D. MIC_RET 和 OUT_RET 仅用于 HD 音频面板。您不必将它们连接到 AC' 97 音频面板。
 - E. 开启前置麦克风。
在 Windows® XP / XP 64 位元操作系统中:
选择” Mixer”。选择” Recorder”。接著点击” FrontMic”。
在 Windows® 8 / 8 64 位元 / 7 / 7 64 位元 / Vista™ / Vista™ 64 位元操作系统中:
在 Realtek 控制面板中点击” FrontMic”。调节” Recording Volume”。

系统面板接头

(9 针 PANEL1)
(见第 2 页第 8 项)



这个接头提供数个系统前面板功能。



根据下面的针脚说明连接机箱上的电源开关、重启按钮与系统状态指示灯到这个排针。根据之前请注意针脚的正负极。

PWRBTN(电源开关):

连接机箱前面板的电源开关。您可以设置用电源键关闭系统的方式。

RESET(重启开关):

连接机箱前面板的重启开关。当电脑死机且无法正常重新启动时, 可按下重启开关重新启动电脑。

PLED(系统电源指示灯):

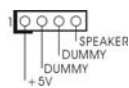
连接机箱前面板的电源状态指示灯。当系统运行时, 此指示灯亮起。当系统处于 S1 待机模式时, 此指示灯保持闪烁。当系统处于 S3/S4 待机模式或关机 (S5) 模式时, 此指示灯熄灭。

HD LED(硬盘活动指示灯):

连接机箱前面板的硬盘动作指示灯。当硬盘正在读取或写入数据时, 此指示灯亮起。

前面板设计因机箱不同而有差异。前面板模块一般由电源开关、重启开关、电源指示灯、硬盘动作指示灯、喇叭等构成。将您的机箱前面板连接到此排针时, 请确认连接线与针脚上的说明相对应。

机箱喇叭接头
(4 针 SPEAKER1)
(见第 2 页第 15 项)



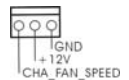
请将机箱喇叭连接到这个接头。

机箱风扇接头
(4 针 CHA_FAN1)
(见第 2 页第 2 项)



请将风扇连接线接到这个接头，并让黑线与接地的针脚相接。

(3 针 CHA_FAN2)
(见第 2 页第 16 项)

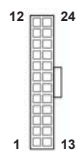


CPU 风扇接头
(3 针 CPU_FAN1)
(见第 2 页第 1 项)



请将 CPU 风扇连接线接到这个接头，并让黑线与接地的针脚相接。

ATX 电源接头
(24 针 ATXPWR1)
(见第 2 页第 7 项)



请将 ATX 电源供应器连接到这个接头。

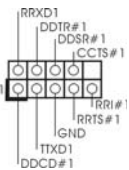


虽然此主板提供 24-pin ATX 电源接口，但是您仍然可以使用传统的 20-pin ATX 电源。为了使用 20-pin ATX 电源，请顺著 Pin 1 和 Pin 13 插上电源接头。



20-Pin ATX 电源安装说明

串行接口连接器
(9 针 COM1)
(见第 2 页第 22 项)



这个 COM1 端口支持一个串行接口的外设。

机箱开启警告功能接针
(2 针 C11)
(见第 2 页第 14 项)



本主板支持机箱开启侦测功能，可侦测机箱盖是否被移动。此功能需机箱具备机箱开启侦测设计。

简体中文

2. BIOS 信息

主板上的 Flash Memory 存储了 BIOS 设置程序。请再启动电脑进行开机自检 (POST) 时按下 <F2> 或 <Del> 键进入 BIOS 设置程序；此外，你也可以让开机自检 (POST) 进行常规检验。如果你需要在开机自检 (POST) 之后进入 BIOS 设置程序，请按下 <Ctrl>+<Alt>+<Delete> 键重新启动电脑，或者按下系统面板上的重启按钮。有关 BIOS 设置的详细信息，请查阅随机支持光盘里的用户手册 (PDF 文件)。

3. 支持光盘信息

本主板支持各种微软视窗操作系统：Microsoft® Windows® 8/8 64 位元 /7/7 64 位元 /Vista™/Vista™ 64 位元 /XP/XP 64 位元。主板随机支持光盘包含各种有助于提高主板效能的必要驱动和实用程序。请将随机支持光盘放入光驱里，如果电脑的“自动运行”功能已启用，屏幕将会自动显示主菜单。如果主菜单不能自动显示，请查找支持光盘内 BIN 文件夹下的“ASSETUP.EXE”，并双击它，即可调出主菜单。

电子信息产品污染控制标示

依据中国发布的「电子信息产品污染控制管理办法」及 SJ/T 11364-2006「电子信息产品污染控制标示要求」，电子信息产品应进行标示，藉以向消费者揭露产品中含有的有毒有害物质或元素不致发生外泄或突变从而对环境造成污染或对人身、财产造成严重损害的期限。依上述规定，您可于本产品之印刷电路板上看见图一之标示。图一中之数字为产品之环保使用期限。由此可知此主板之环保使用期限为 10 年。



图一

有毒有害物质或元素的名称及含量说明

若您欲了解此产品的有毒有害物质或元素的名称及含量说明，请参照以下表格及说明。

部件名称	有害物质或元素					
	铅 (Pb)	镉 (Cd)	汞 (Hg)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板及电子组件	X	O	O	O	O	O
外部信号连接头及线材	X	O	O	O	O	O

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求，然该部件仍符合欧盟指令 2002/95/EC 的规范。

备注：此产品所标示之环保使用年限，系指在一般正常使用状况下。

1. Penjelasan

Terima kasih telah membeli motherboard ASRock **E35LM1 R2.0**, motherboard andal yang diproduksi berdasarkan kontrol kualitas tinggi ASRock secara konsisten. Motherboard ini memberikan performa terbaik dengan desain yang kokoh sesuai komitmen ASRock untuk kualitas dan daya tahan.

Panduan Pemasangan Ringkas ini berisi pendahuluan tentang motherboard dan panduan pemasangan langkah demi langkah. Informasi lengkap lainnya tentang motherboard ini tersedia di buku panduan yang diberikan bersama Support CD (CD Pendukung).



Karena spesifikasi papan induk dan software BIOS barangkali dapat diperbarui, isi dalam buku pedoman ini akan mengikuti perubahan tanpa peringatan. Dalam kondisi terjadinya modifikasi buku pedoman ini, versi baru akan diperlihatkan dalam website ASRock tanpa peringatan lebih. Anda dapat mendapatkan kartu- kartu yang paling baru dan daftar bantuan CPU pada website ASRock.
Website ASRock <http://www.asrock.com>

1.1 Isi Paket

Papan Induk **E35LM1 R2.0** ASRock (Faktor Form Mini-ITX)

Pemimpin Instalasi Cepat **E35LM1 R2.0** ASRock

Support CD **E35LM1 R2.0** ASRock

2 x Kabel satu serial Data ATA (SATA) (bebas-pilih)

1 x Satu Pelindung I/O



ASRock Mengingatkan...

Untuk mendapatkan performa lebih baik di Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit, sebaiknya atur pilihan BIOS dalam Storage Configuration (Konfigurasi Penyimpanan) ke mode AHCI. Untuk konfigurasi BIOS, lihat "Panduan Pengguna" dalam CD dukungan kami untuk informasi rinci.

1.2 Spesifikasi

Podium	- Faktor Form Mini-ITX
CPU	- AMD Zacate E-240 APU - Dapat digunakan AM's Cool 'n' Quiet™ Technology - UMI 2.5 GT/s
Grup Chip	- AMD A50M
Ingatan	- 2 x Alur DDR3 DIMM - Mendukung memori DDR3 1333(OC)/1066/800 non-ECC yang tidak di-buffer - Kapasitas paling banyak: 16GB
Alur Ekspansi	- 1 x PCI Express 2.0 x16 slots (PCI-E1: x4 mode)
Diagram	- Integrated AMD Radeon HD 6310 graphics - DX11 class iGPU, Pixel Shader 5.0 - Ingatan sama Max. 512MB - Mendukung D-Sub dengan resolusi maksimal hingga 2560x1600 @ 60Hz
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec)
LAN	- PCI-E x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Menggunakan Wake-On-LAN - Mendukung Deteksi Kabel LAN - Mendukung Energy Efficient Ethernet 802.3az - Mendukung PXE
Papan Belakang I/O	I/O Panel - 1 x Port Keyboard/Mouse PS/2 - 1 x Port VGA - 4 x Port USB 2.0 siap-dipakai - 1 x RJ-45 LAN Port LED (ACT/LINK LED dan SPEED LED) - HD Audio Jack: Line in / Penyuar Depan / mikropon
SATA3	- 4 x penghubung SATA3 6.0Gb/s, dapat digunakan NCQ, AHCI dan fungsi fungsi "Hot Plug"
Penghubung	- 4 x penghubung SATA3 6.0Gb/s - 1 x CIR header - 1 x port header COM - 1 x Chassis Intrusion header - 1 x Penghubung KIPAS CPU (3 pin) - 2 x Penghubung KIPAS casing (1 x 4 pin, 1 x 3 pin) - Penghubung power 24 pin ATX - Penghubung audio panel depan - 2 x USB 2.0 header (menggunakan 4 port USB 2.0)

Ciri-ciri BIOS	- 32Mb AMI UEFI Legal BIOS dengan dukungan GUI - Menggunakan "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Menggunakan jumperfree - Penyokong AMBIOS 2.3.1 - Penyesuaian berbagai tegangan DRAM, FCH, +1V, +1.8V
Sokongan CD	- Driver, Utilitas, Perangkat Lunak Antivirus (Versi Percobaan), CyberLink MediaEspresso 6.5 Versi Percobaan, ASRock MAGIX Multimedia Suite - OEM, Google Chrome Browser dan Toolbar
Penjaga Hardware	- Perasa Suhu CPU - Perasa Suhu Casis - Pengukur Kipas CPU - Pengukur Kipas casis - Kipas CPU Senyap (Kecepatan Kipas Sasis Otomatis Disesuaikan Berdasarkan Temperatur CPU) - Kontrol Multi-Kecepatan Kipas CPU/casis - Deteksi CASING TERBUKA - Penjagaan voltasi: +12V, +5V, +3.3V, Vcore
OS	- dapat digunakan Microsoft® Windows® 8 / 8 64-bit / 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit
Sertifikasi	- FCC, CE, WHQL - ErP/EuP Ready (memerlukan catu daya ErP/EuP ready)

* Untuk informasi rinci, silakan kunjungi website kami: <http://www.asrock.com>

Installing OS on a HDD Larger Than 2TB

This motherboard is adopting UEFI BIOS that allows Windows® OS to be installed on a large size HDD (>2TB). Please follow below procedure to install the operating system.

1. Please make sure to use **Windows® Vista™ 64-bit (with SP1 or above)**, **Windows® 7 64-bit** or **Windows® 8 64-bit**.
2. Press <F2> or <Delete> at system POST. Set **AHCI Mode** in UEFI Setup Utility > Advanced > Storage Configuration > SATA Mode.
3. Choose the item **“UEFI:xxx”** to boot in UEFI Setup Utility > Boot > Boot Option #1. (“xxx” is the device which contains your Windows® installation files. Normally it is an optical drive.) You can also press <F11> to launch boot menu at system POST and choose the item **“UEFI:xxx”** to boot.
4. Start Windows® installation.
5. If you install **Windows® 7 64-bit** OS, OS will be formatted by GPT (GUID Partition Table). Please install the hotfix file from Microsoft®:
<http://support.microsoft.com/kb/979903>